Welcome to the 22nd issue of our Department Newsletter. We had another memorable and productive year (Fall 2018-Summer 2019). The department continues to grow and blossom in all aspects. Currently, we have 21 tenure and tenure-track faculty members, 2 Assistant Professors in Residence, 1 visiting Associate Professor, 2 Visiting Assistant Professors, three Lecturers, 3 adjunct faculty members, 10 faculty members from UCHC, Computer science & Engineering, Ecology and Evolutionary Biology, Allied Health Science, Mathematics, and Nursing Instruction and Research, who have joint appointments with Statistics, and 1 postdoc. In fall 2019, we also have 180 graduate students enrolled in our graduate program, of whom 65 have received financial support, 163 Stat major or double major undergraduate students, 74 Math-Stat major or double undergraduate students, and 65 Stat minor undergraduate students.

I would like to welcome Yao Zheng (a tenure tracked Assistant Professor) and Emmy Karim and Min Shu (Assistant Professors in Residence) to join the Department this fall. I am very happy that Néhémy Lim continues to be a Visiting Professor for another year. I would like to welcome our former colleague Sangwook Kang of Yonsei University to spend his sabbatical year as a Visiting Associate Professor here. Welcome our alumnus Marcos Prates of Universidade Federal de Minas Gerais to come back to Storrs as a Visiting Assistant Professor during his sabbatical year. I would also like to welcome Fulbright Scholar, Professor László Márikus of Eotvos Lorand University to be at Storrs this fall. He will deliver a series of lectures on time series modeling this fall semester. Finally, I would like to welcome 12 visiting scholars from 6 countries to be with us this fall.

Congratulations to Xiaojing Wang for receiving the prestigious National Science Foundation’s CAREER Award with “Advancing Latent Variable Statistical Modeling for the Analysis of Big and Complex Longitudinal Data to Promote Personalized Learning” (September 1, 2019 – August 31, 2024). See https://today.uconn.edu/2019/08/uconn-receives-eight-early-career-awards-nsf/?utm_source=listserv&utm_medium=email&utm_campaign=weekly&utm_content=uconn-today for more information. Congratulations to both Haiying Wang and Xiaojing Wang for receiving tenure and being promoted to Associate Professor effectively in August 2019. Also congratulations Anthony Luis for the reclassification to UCP 04-Program Assistant 2 with an effective date of February 5, 2019. UConn Early College Experience recognized the Department of Statistics’ Professor Nalini Ravishanker with the Thomas E. Recchicco Faculty Coordinator Award for Academic Leadership at the Awards Celebration Reception on April 26, 2019. Congratulations to Haiying Wang and Yuping Zhang for their elections as the elected members of the International Statistical Institute. Yuwen Gu’s research was funded by the Research Excellence Program of UConn Office of Vice President for Research (OVPR). Very proud of our faculty and staff achievements.

Congratulations to Prince Allotey (PhD student) for receiving an Honorable Mention for his application for the National Academies of Sciences, Engineering and Medicine’s Ford Foundation Fellowship (2019); Guanyu Hu (Postdoctoral Research Associate) for being selected as a recipient of the 2019 ICSA China Conference Junior Researcher Awards; Renjie Chen, Henry Linder, and Patrick Toman (PhD students) for receiving student travel awards to attend the Quality and Productivity Research Conference 2019 (QPRC). Also congratulations our PhD students, Yan Li, Xiaokang Liu, and Wei Shi, for receiving IBM Student Research Awards, Paul Mclaughlin for receiving the Liberty Mutual Student Poster Award, and Daniel Kpormegbey and Katherine Zavez for winning the 3rd Place of Travelers Stat-a-thon 2019 at the 33rd New England Statistics Symposium. Yishu Xue (PhD, 2019) received one of the International Biometric Society Eastern North American Region’s (ENAR) Distinguished Student Paper Awards for the 2019 ENAR Spring Meeting in Philadelphia, PA and PhD student JooChul Lee received KAUPA GOLD scholarship in October 2019. Very happy to see such outstanding achievements by our students.
The UConn Health Center has continued to support our students both from joint research grants as well as from internship programs. We thank Professor Robert Aseltine, Chair, Division of Behavioral Science and Community Health and Director, Center for Public Health and Health Policy, for his continuous sponsor of research collaborations with our faculty and graduate students. We also thank Professor James Grady, Director of Biostatistics, Connecticut Institute for Clinical and Translational Science, for providing financial support and research opportunities for our graduate students. We are also enjoying close research collaboration with School of Nursing, School of Pharmacy, and College of Agriculture, Health and Natural Resources. Our Statistical Consulting Services (SCS) is continuing with great success under new Director Timothy Moore.

The Department successfully hosted the 3rdStat4Onc Annual Symposium, April 25-27, 2019 (https://events.stat.uconn.edu/stat4onc/) and the 33rd New England Statistics Symposium, May 16-18, 2019 (https://symposium.nestat.org/). The second UConn Statistics Biopharmaceutical Summer academy was held August 5 - 24, 2019. 38 students (UG, BIST/STAT MS, PhD) participated in the second summer academy. Visit https://events.stat.uconn.edu/BI-UConn/ for more information, activities and photos. During the 18-19 academy year, Pfizer, Boehringer Ingelheim, New York Life, Hartford Steam Boiler Inspection and Insurance Co., and Travelers Insurance hosted events/data science days and met our students in the Department.

During the 2019 JSM, UConn Statistics Department Alumni and Friends Lunch was successfully held in Mineral Hall F-G, Hyatt Regency Denver, 650 15th Street, Denver, CO 80202 on July 31, 2019. Over 30 guests attended the lunch. I would like to thank our department’s Alumni and Friends Receptions at JSM or other major conferences committee chaired by Yuwen Gu, our staff Tracy Burke of Statistics and Abigail Jackson of the Alumni Relations, College of Liberal Arts and Sciences, for organizing this event and developing the registration website. I expect that we will host another Department Alumni and Friends Lunch during the 2020 JSM in Philadelphia.

Congratulations to our alumnus Sudipto Banerjee (PhD, 2000), Professor and Chair, Department of Biostatistics, UCLA Fielding School of Public Health for receiving the 2019 George W. Snedecor award, which was established in 1976 and is one of the prestigious COPSS awards based on the high standards of his paper ‘Hierarchical nearest-neighbor Gaussian process models for large geostatistical datasets’ (by Datta, A., Banerjee, S., Finley, A.O. and Gelfand, A.E.), as well as the impressive extent to which Sudipto has been instrumental in the development of statistical theory in biometry, in particular, his groundbreaking and fundamental work on Bayesian hierarchical modelling and the analysis of largespatial datasets, and his contributions to the mapping of disease incidence in space and time, and the analysis of environmental exposures. Feng Guo (PhD2007) was promoted to the rank of Full Professor at Virginia Tech in April 2019. Karthik Bharath (PhD, 2012) was promoted to Associate Professor at the University of Nottingham, UK in March 2019. Steven Chiou (PhD, 2013), Assistant Professor at UT-Dallas, and Sonali Das (PhD, 2006), Associate Professor at the University of Pretoria, South Africa, have been approved for ISI Elected Membership in 2019. Shariq Mohammed (PhD, 2018), Research Fellow in Computational Medicine and Bioinformatics has received a scholars award from the Precision Health at University of Michigan in 2019. Seongho Song (PhD, 2005) was promoted to the rank of Full Professor at University of Cincinnati in July 2019. The recipient of the 2019 UConn Statistics Department Distinguished Alumni Award is Patrick Cantwell, who received Ph.D. in statistics from the University of Connecticut in 1987. He is currently chief of the Decennial Statistical Studies Division at the U.S. Census Bureau. At the Bureau, he has developed and implemented statistical methods in various areas, including household surveys, business surveys, and decennial census programs. He is an ASA fellow elected in 2013. I am very proud of our alumni for their amazing achievements in 2019.

Ming-Hui Chen (ming-hui.chen@uconn.edu)
A message from the Director of the Graduate Program

Our department has three graduate programs: the Ph.D. program, the M.S. program in Statistics, and the Professional M.S. program in biostatistics. These programs provide excellent learning and research experiences to prepare students for a successful career in statistics. We offer a broad spectrum of modern courses in statistics and probability, covering advanced theories and methodologies, statistical computing, data science, and consulting. In advanced seminar courses, students are exposed to exciting areas of current research. Through our Statistical Consulting Services, students are engaged in research in many areas of science and technology, and provide support to the research community of the University of Connecticut. We have an extensive collaboration with faculty members in educational, medical, biological, health and environmental sciences, and our graduate students have the opportunity to be employed as research assistants on many of their funded research projects. During the 2018-19 academic year, over 50

New students were enrolled in our graduate programs, 19 of them with support in the form of teaching or research assistant ship from the department or a variety of other sources. We gratefully acknowledge the financial support from Dean’s Office of the College of Liberal Arts and Sciences (CLAS), Dean’s Office of the College of Agriculture, Health and Natural Resources(CANR), Office of the Vice President for Research, Pfizer, Inc. Our graduate programs are highly competitive and visible around the world. This year over 600 students all over the world applied for admission to the programs. I would like to thank the members of the graduate admissions committee, Professors Harel (Director of Graduate Admissions), Ming-Hui Chen (Department Head) for their hard work in reviewing the applications. Thanks are also due to our administrative staff, Anthony Luis and Tracy Burke, for their hard work throughout the application and admission processes. This Fall 2019 semester, we welcomed over 60 new students, 47 in the M.S. program in Statistics, 49 in the Professional M.S. program in Biostatistics, and 90 in the Ph.D. program, with 15 of the new Ph.D. students being supported by the department.

For more information about our graduate programs, including course offerings, research and other academic activities, news updates, and admissions, please go to the department website: www.stat.uconn.edu.

Zhiyi Chi (zhiyi.chi@uconn.edu)
A message from the Director of the Undergraduate Program

Let me start by congratulating all of our recent graduates for obtaining their Bachelor’s degrees and wishing them success in all of their future endeavors, and also by thanking Professor Nalini Ravishanker for her outstanding service and achievements as the Undergraduate Program Director for over two decades. Taking over this role as of Fall 2019, I can only hope to follow in her footsteps, allowing the Undergraduate Program to continue to grow and flourish!

Our department now offers a major in Statistics, a major in Mathematics-Statistics, an Individualized major in Data Science, and a Minor in Statistics. All our course offerings remain in high demand with near-full enrollments. We continue to offer multiple sections of many core classes, where we previously only offered one or two, and have added several new elective courses to complement the recent growth in the statistics field. Our summer session offerings of STAT 2215 and STAT 3025 also attract many undergraduate students and allow them to complete their degrees on time. We continue to connect students with undergraduate research opportunities, internships, and other resources. Please visit the department website at www.stat.uconn.edu for more information about our undergraduate program, and information for prospective majors and minors.

Congratulations to all the graduates this year; I wish them well in their future careers, either as they head out to graduate programs around the country, or accept jobs in industry or government.

Elizabeth Schifano (elizabeth.schifano@uconn.edu)
A message from the Director of the Statistical Consulting Services

By: Timothy Moore

The Statistical Consulting Services (SCS) has had another busy and productive year, a year in which major structural changes have taken place. In the summer of 2019, Timothy Moore took over as the director of the service, with Xiaojing Wang taking on the role of SCS Faculty Advisor. At the same time, the SCS is now being run under the Center for Open Research Resources & Equipment (COR2E). The SCS is still firmly tied to the Department of Statistics through its advisory committee and team Statistics Graduate Assistant consultants. In the spring 2019, the SCS team consisted of Renjie Chen, Joochul Lee, Daeyoung Lim, Xiaokang Liu, Jinjian Mu, Qi Qi, Yiming Zhang, Di Zhang. In fall 2019, Renjie Chen, Joochul Lee, Jinjian Mu, Yulia Sidi, Shuang Yin, and Xiaomeng Li have served as SCS consultants. Joochul Lee has served as the administrative specialist for the SCS for the last two semesters. During the academic year, the SCS was jointly funded by Office of the Vice President for Research (OVPR), Dean’s Offices of CLAS and CAHNR, and the Department of Statistics.

The SCS has assisted over 115 clients so far in 2019. During the spring semester in 2019, the SCS offered full-consulting projects, walk-in consulting, and online services. Walk-in services were provided daily for a total of 10 hours per week. Online consulting was provided by Qi Qi. In total, the SCS assisted with 44 walk-in cases over the spring semester. In addition, clients made regular use of the online services, with a total of 27 clients using this valuable resource. Finally, a total of 9 full consulting projects were engaged in by the SCS team. These projects and clients came from across campus (e.g., Plant Science, Nursing, Business, Linguistics, and Psychology).

The fall semester has also seen a healthy influx of clients to the service. The SCS has, once again, offered 10 hours of in-person consulting per week in the form of our walk-in service. Meanwhile, Yulia Sidi has provided online consulting. In particular, 15 clients so far have made use of the walk-in service, while an additional 9 have made use of the online services. The full consulting service has been well-utilized with the SCS working on a total of 13 full consulting projects so far this semester. We are excited by the diversity of projects and disciplines that these projects are coming from (e.g., Family Studies, Kinesiology, Linguistics, Economics, Animal Science, Molecular and Cell Biology, Physiology & Neurobiology, Agriculture, etc.). We hope to continue to expand the reach of the SCS to all departments on the Storrs campus, as well as to regional campuses, and beyond the University. To that end, we have redesigned the SCS website (available at stat.uconn.edu/consulting-info), and have taken steps to streamline our ability to share information with our clients. In particular, we have begun using the Open Science Framework (OSF.io) as a means of sharing resources, data and code with our clients.
The SCS ran three workshops in Spring 2019. The workshops covered “Can dead fish be alive – Modern statistical methods for testing multiple hypotheses”, “A Math-free workshop for Power Calculation”, and “How to Deal With Missing Data in Practice”. These workshops were run by Daeyoung Lim, Xiaokang Liu, Joochul, Renjie Chen, Jinjian Mu, Di Zhang & Yiming Zhang. Roughly 90 participants registered for these workshops which were also live-streamed.

**Session 1: Can dead fish be alive?** - (Math-free workshop to) Modern statistical methods for testing multiple hypotheses

If brain cells of a dead fish were tested, can we conclude if it's dead? When everyone thought running multiple tests would better support our claim, turns out, it rather leads to false conclusions; hence, the name “multiplicity problem”. An overview of classical and modern multiplicity adjustment methods will be introduced controlling Family-wise Error Rate (FWER) and False Discovery Rate (FDR). Software details in R will be demonstrated. Real examples and applications will be presented. Don't revive a dead fish!

**Session 2: Statistical Guarantee for Conducting a Successful Study | A Math-Free Workshop for Power Calculation**

Sample size calculation plays an important role in study design and grant proposal preparation. An overview of power analysis will be given. Two case studies will be presented to demonstrate the magic of power calculation for the survival model and the linear mixed effect model using SAS and R.

**Session 3: Perfect the Imperfect Data - How to Deal with Missing Data in Practice**

No data would be perfect because of imperfect design or data collection process. Missing data is often inevitable in practice. In order to help researchers handle missing data properly, cause, consequence, analysis methods and prevention suggestions of missing data will be all introduced. In this workshop. Case studies in SPSS will be presented as well.

In fall 2019, the SCS will be involved in running 2 workshops as part of The Software Carpentry Foundation. These workshops will be designed to teach UConn researchers the basics of how to program in R and Python.

Pictured from Left to Right:

Xiaojing Wang, Joochul Lee, Renjie Chen, Timothy Moore, Yulia Sidi, Shuang Yin, Xiaomeng Li, Jinjian Mu
Section I
Recent Department Activities
The 33rd New England Statistics Symposium: Statistical Data Science in Action

By: Haim Bar, HaiYing Wang and Jun Yan

May 15-17, Hartford, CT

The Department of Statistics of the University of Connecticut proudly hosted the first remodeled, 3-day New England Statistics Symposium (NESS) since the establishment of the New England Statistical Society, on May 15–17, 2019. The theme was “Statistical Data Science in Action”. It took place in Hilton Hartford because Nathan Hale Inn was being renovated at the time. The symposium featured short-courses, plenary talks, invited sessions, career development panel discussions, student paper competition, student poster competition, Stat-a-thon, the inaugural Chernozhukov Lecture, and a special session honoring our own Professor Rick Vitale. Close to 500 participants attended the symposium.

Four short-courses were taught on the first day. Two were full-day: “Intermediate Machine Learning: Key Concepts and Techniques” by Dr. David Rosenberg (Bloomberg); and “Big Data Analytics and Deep Learning” by Dr. Ming Li (Amazon) and Dr. Hui Lin (Netlify). The other two were half-day: “Practical Visualization for Data Scientists” by Dr. Xiaoyue Cheng (University of Nebraska at Omaha); and “Introduction to Multilevel Modeling” by Dr. Min Zhu (SAS). The short courses were all well-attended and we had to cap the enrollments of some courses at 30 due to space limitations. A mixer followed the short-courses at the end of the first day, sponsored by the Munich Re Group - The Hartford Steam Boiler Inspection and Insurance Co.

Thursday, May 16, started with a welcome remark from the 2019 President of the New England Statistics Society and Head of our department, Prof. Ming-Hui Chen, and two keynote presentations. The first keynote talk was “Big Data, Google and Disease Detection: A Statistical Adventure” by Prof. Sam Kou of Harvard University. The second keynote talk was “Machine Learning for Structured and Unstructured Data in Finance”, presented jointly by Drs. David Rosenberg and Amanda Stent of Bloomberg. A total of 63 invited sessions covered a wide spectrum of areas of Statistical Data Science in Action. In addition to showcases of Statistical Data Science in Action in many fronts and fields, we also had sessions on education and career development on topics including career opportunities, effective communications, teaching data science, and leadership.

The poster session was held in the late afternoon Thursday, May 16. It had 48 posters, mostly presented by students competing for the Liberty Mutual Student Poster Awards. Dr. Anthony D’Amico of Dana-Farber Cancer Institute and Brigham & Women’s Hospital delivered the first banquet talk in the NESS history, “Patient Outcomes in Prostate Cancer by Partnering Statistics and Medicine.” The inaugural president of the New England Statistical Society, Prof. Xiao-Li Meng of Harvard University, made toasts which were interesting and thought-provoking as usual.

A special session was held in the afternoon of Friday, May 17, entitled “Probability, Statistics, and Geometry: A Special Session Honoring Rick Vitale,” celebrated Rick’s academic achievements and his 75th birthday. David Pollard (Yale University) was chair, and talks relating to Rick’s work were given by Andrew Barron (Yale University), “Gaussian Complexity, Metric Entropy, and Risk of Deep Nets”; David Donoho (Stanford University), “The Statistical Significance of Perfect Linear Separation”; and Subhashis Ghosal (North Carolina State University), “Coverage of Credible Intervals for Monotone Regression.” Rick concluded the session with thanks to the organizers and with a suggestion to younger colleagues that they always find time for research problems that genuinely intrigue them. The session was recorded and can be viewed online: https://totalwebcasting.com/view/?func=VOFF&id=uconn&date=2019-05-17&seq=1.
The conference concluded on Friday afternoon with a new addition to NESS, the Cherno Lecture. The Cherno Excellence in Statistics Awards is the most prestigious award bestowed by the Society to an individual who, in the tradition of Herman Cherno’s work, has made exceptional contributions to the theory, methodology, or novel applications to statistics and/or data science. The inaugural recipient of the Cherno Award was Shaw-Hwa Lo, Professor of Statistics at Columbia University. The awardee’s identity remained a secret until the presentation of the award, which was presented by Dr. Joe Cappelleri, President-Elect of the New England Statistical Society and Chair of the Cherno Award Committee. Prof. Lo delivered the first Cherno Lecture in the NESS history, “Interaction-based Variable Selection and Big Data Prediction.”

The closing award ceremony also featured three student awards. The IBM Student Paper Awards, continuously sponsored by the IBM Watson Research Center, went to Moming Li, Yan Li, Xiaokang Liu, and Wei Shi. Except Moming Li of George Mason University, the other three awardees were all from UConn Statistics. The winning papers were: Moming Li, Guoqing Diao, and Jing Qin, “On Symmetric Semiparametric Two-sample Problem”; Yan Li, Kun Chen, Jun Yan and Xuebin Zhang, “Weight Matrix Construction in Fingerprinting to Improve Detection of Global Temperature Signals in Historical Climate”; Xiaokang Liu, Shujie Ma and Kun Chen, “Multivariate Functional Regression via Nested Reduced-Rank Regularization”; and Wei Shi, Ming-Hui Chen, Lynn Kuo and Paul Lewis, “New Bayesian Measures for Information and Data Compatibility”. The Liberty Mutual Student Poster Awards went to Shajratul Alam, University of Rhode Island; Paul Mclaughlin, University of Connecticut; Jiahui Yu, University of Massachusetts Amherst; and Xiaojing Zhu, Boston University.

A companion event of the 2019 NESS was the Travelers Stat-a-thon sponsored by our longtime industry partner Travelers. We had two themes, Connecticut Housing in partnership with Con-necticut Open Data, and Customer Retention in partnership with Travelers. The winners of the Connecticut Housing theme were: 1st Place: Team Bentley (Madhurya Baruah, Pooja Sudheendra, Wenqi Wang, and Yueyi Wang, all from Bentley University); 2nd Place: LLJW (Peng Jin, New York University; Myeonggyun Lee, New York University; Chihua Li, Columbia University; Bin Wang, New York University); 3rd Place: KAE-Group (Anhar Aloufi, Daniel Kpormegbey, and Katherine Zavez, all from University of Connecticut). An honorable mention was given to two high school students, Richard Dong and Christa Malan of Easton Country Day School. The winners of the Customer Retention theme were: 1st Place: Rule of Three (Ariel Chernofsky, Boston University; Nina Orwitz, New York University; Serena Zhan, Columbia University); 2nd Place: Q.E.D. (Yizhou Mi, Shengjun Wang, Jiaxi Yang, and Weibo Zhang, all from Columbia University).

The 2019 NESS Organizing Committee consisted of Haim Bar, HaiYing Wang, and Jun Yan (chair). The Stat-a-thon committee was chaired by HaiYing Wang. The Student Paper Committee was co-chaired by Yuping Zhang of UConn Statistics and Beatriz (Stefa) Ethcegaray of IBM Watson Research Center. The Student Poster Committee was co-chaired by Valarie Bazaaro of Wesleyan University, ’13 PhD, and Zhenkui Zhang of Liberty Mutual, ’05 PhD. The Fundraising Committee was chaired by Dipak Dey. The Program Committee was co-chaired by Kun Chen, Gavino Puggioni of University of Rhode Island, and Jun Yan. The committees consists of many people from many institutions. The success of the conference depended on the collective eorts of all.

We thank our sponsors, Department of Statistics, University of Connecticut, ASA Connecticut Chapter, IBM Thomas J. Watson Research Center, Liberty Mutual Insurance, Munich Re Group –The Hartford Steam Boiler Inspection and Insurance Co., Pfizer, Taylor & Francis, and Travelers Insurance. Like with all other events organized by the department, our student volunteers, led by Jieying Jiao, played a critical role in supporting the conference in all aspects from staying the registration desk to handling the visual equipment. Our student webmaster Yan Li developed and maintained the webpage, the registration system, and the abstract submission system of the conference. Our department sta Tracy Burke and Anthony Luis have been our indispensable support as always. Kate Copeland of University Events and Conference Services helped extensively with her professional expertise.

The 34th NESS will be held on May 21–23, 2020, at the University of Rhode Island.
A message from the New England Statistical Society

By: Kun Chen

With the support from all our members and friends, the New England Statistical Society (NESS) has made significant progress on various fronts in 2019. We now have more than 600 registered members. Below I am glad to report to you the major activities and updates of NESS in 2019.

Hosted by the Department of Statistics at the University of Connecticut, the 33rd New England Statistics Symposium was successfully held on May 15-17 at Hilton Hotel, Hartford, CT. The event organized more than 60 invited sessions/panels and was attended by more than 450 participants, making it the largest NESS symposium ever. To learn more details, please read a separate report from Dr. Jun Yan, the Committee Chair of the symposium. Information about the past symposiums can be found at https://nestat.org/events/symposium/. The next year's NESS Symposium will be hosted by the Department of Computer Science and Statistics at the University of Rhode Island (URI), to be held on May 21-23, 2020. Please contact the Committee Chair Dr. Gavino Puggioni for inquiries, and more details will be available soon at https://symposium.nestat.org.

The Chernoff Excellence in Statistics Awards is the most prestigious award bestowed by the NESS. The inaugural recipient of the Chernoff Award is Dr. Shaw-Hwa Lo, Professor of Statistics at Columbia University, Department of Statistics, who, in the tradition of the Herman Chernoff’s work, has made exceptional contribution to the theory, methodology, and novel applications of statistics and data science. Dr. Lo gave a talk titled “Interaction-based Variables Selection and Big Data Prediction” at the award ceremony, held as the closing event of the 2019 NESS Symposium. The Award Committee consisted of Drs. Joseph C. Cappelleri (Pfizer Inc, NESS President-Elect), James MacDougall (NESS VP for Strategies & Development), Mark Vangel (Massachusetts General Hospital), and Bushi Wang (Boehringer-Ingelheim Inc.). For more details on this award and for making donations, please visit https://nestat.org/haward/.

The last 10-15 years have seen great emergence of drug development efforts in the rare disease space. Contributing factors include increased public awareness, encouraging drug regulation changes, scientific advancement in cellular /molecular biology and genetics, development of innovative trial designs, large influx of capital investment, availability of scientific talent through decades of cultivation, etc. As a result, a great number of regulators, academicians, and industry statisticians now work to bring these orphan drugs to patients, facing unique technical issues and challenges. However, at least in the US, there is no statistical conference dedicated to such unique issues and challenges. Given the large unmet need, NESS proposes a unique conference, New England Rare Disease Statistics (NERDS) Workshop, so that statisticians across the entire rare disease drug development spectrum have a common "home" to exchange ideas and share experiences, and also to network. The 2019 workshop was successfully held on October 11, 2019, at Seaport Hotel in Boston, Massachusetts. The workshop was sponsored by twelve companies and non-profit organizations and was attended by more than 260 participants from industry, academia and government agencies. The steering committee consisted of Dr. Ou Hong Wang, VP & Head of Biostatistics at Vertex, and Dr. Ming-Hui Chen, the current President of NESS. The Organizing Committee was co-chaired by Dr. Yang Song at Vertex and Dr. Sammi Tang at Servier. NERDS Workshop aims to be an annual one-day workshop with detailed presentations and discussions. Speakers from industry, academia, and government are invited. Topics will cover technical issues, regulation interpretation, industry trends, and case studies of both success and failure stories. Please learn more from the workshop website at https://nerds.nestat.org. For inquiries of next year's event, please contact Dr. Song Yang at Yang_Song@VRTX.com or Dr. Sammi Tang at sammi.tang@servier.com.
On November 16, we will host our second NextGen Data Science Day event at Bentley University, Waltham, Massachusetts (https://nestat.org/nextgen/dsd/), organized by NESS Committee on NextGen. NextGen seeks to support the next generation of statisticians and data scientists. In keeping with our mission, the Data Science Day will involve two keynote speakers, Dr. Mike Tamir, Head of Machine Learning for SIG, and Dr. Francesca Dominico, Professor of Biostatistics at Harvard, and several panel discussions throughout the day. Panel discussions will include topics on business analytics in practice, challenges in data science and careers in data science. There will also be a workshop on Data Visualizations with Tableau.

In addition, our Committee on Education (https://nestat.org/education/) continues to organize talks in NESS Colloquium Series, offer NESS Short Courses on Statistics and Data Science for Industry, and outreach to K-12 and Non-profit Units. Our Committee on Journal & Publication has made significant progress towards establishing our own journal for promoting the role of statistics in data science; an agreement with Researchers.One (https://www.researchers.one) is soon to be reached for the development of an innovative peer-review and publication initiative.

As of June 1, 2019, Dr. Joseph C. Cappelleri has become the President Elect. Dr. Jessi Cisewski-Kehi stepped down from the position of VP for NextGen; under her leadership, the NextGen group and their activities have really helped the society to build a brand. Dr. Abidemi Adeniji has been appointed as the new NextGen VP with a two-year term.

To learn more about NESS, please visit https://nestat.org. We sincerely invite you to join us.
# Membership Registration Form

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- **Student Membership** is free. **Regular membership** is $30 per year.
- **Special rate for life membership**: We offer a founding-year special rate of $500. Starting from January 1st, 2018, the life membership rate is $600.
- **Joint membership with Institute of Mathematical Statistics (IMS)** is $109 per year.

Please send the form and a check to:
New England Statistical Society (Attn: Lynn Kuo)
Room 306, Philip E. Austin Building
215 Glenbrook Rd. U-4120
Storrs, CT 06269-4120
The 3rd Stat4Onc Annual Symposium

The three-day symposium aims to bring oncologists and statisticians together to share new research, discuss novel ideas, ask questions and provide solutions for cancer clinical trials. In the era of big data, precision medicine, and genomics and immune-based oncology, it is crucial to provide a platform for interdisciplinary dialogues among clinical and quantitative scientists. The Stat4Onc Annual Symposium serves as a venue for oncologists and statisticians to communicate their views on trial design and conduct, drug development, and translations to patient care. To be discussed includes big data and genomics for oncology clinical trials, novel dose-finding designs, drug combinations, immune oncology clinical trials, and umbrella/basket oncology trials. An important aspect of Stat4Onc is the participation of researchers across academia, industry, and regulatory agency.

April 25-27, 2019
Hilton, Hartford, Connecticut

This symposium series started in 2017 at the Stanford University (http://med.stanford.edu/cisd/events/symposium-May2017.html) as an joint event between Stanford University and the University of Chicago. The second symposium was held on May 29-30, 2018 at the University of Chicago (http://health.bsd.uchicago.edu/yji/oncostat/) where we extended our partnership with University of Connecticut and changed the Symposium name to OncoStat. This year, we renamed our symposium under the name of Stat4Onc and will hold the event at University of Connecticut. This symposium is intended to be an annual event that rotates its location at Stanford University, the University of Chicago, and the University of Connecticut.
The 3rd Stat40nc Annual Symposium

Organizing Committees

Scientific Program Committee
Yuan Ji (Co-Chair), Ph.D., The University of Chicago, IL
(YJi@health.bsd.uchicago.edu)
Ying Lu (Co-Chair), Ph.D., Stanford University, CA
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Dan Catenacci, M.D., University of Chicago, IL
Qiqi Deng, Ph.D., Boehringer Ingelheim, CT
Laura Fernandez, Ph.D., US FDA, DC
Shivaani Kumar, M.D., Stanford University, CA
Huaming Tan, Ph.D., Pfizer, CT
Susan Tannenbaum, M.D., UConn Health, CT

Local Organizing Committee
Ming-Hui Chen (Co-Chair), Ph.D., University of Connecticut, CT
(ming-hui.chen@uconn.edu)
Naitee Ting (Co-Chair), Ph.D., Boehringer Ingelheim, CT
(naitee.ting@boehringer-ingelheim.com)
Kun Chen, Ph.D., UConn and NESS, CT
James Grady, DrPH/MPH, UConn Health, CT
Lynn Kuo, Ph.D., UConn and NESS, CT

Graduate Student/Postdoc Volunteer Committee
Jono Brody-Felber
Lijiang Geng
Guanyu Hu
Jieying Jiao (Chair)
Joochul Lee
Hongfei Li
Yang Liu
Wei Shi
Wenjie Wang
Yishu Xue
Xuan Zhang
Yiming Zhang

Webmaster: Yan Li, UConn, CT
Administrative Support: Anthony Luis, UConn, CT
(a.luis@uconn.edu)
The 3rd Stat4Onc Annual Symposium

Short Courses

Four half-day short courses were held on April 25, 2019 in the Graduate Business Learning Center Building (GBLC) located at 100 Constitution Plaza.

Morning Parallel Sessions (8:30 AM - 12:00 noon)

  Course 1: Survival Analysis Methods for Non-Proportional Hazards
        GBLC 501 by Professor Lu Tian, Stanford University
  Course 2: Review of Early Phase Trial designs with Recent Development for Precision Oncology
        GBLC 502 by Professor Ying Kuen K. Cheung, Columbia University

Afternoon Parallel Sessions (1:30 PM - 5:00 PM)

  Course 3: Statistical Remedies for Flawed Conventions in Medical Research
        GBLC 501 by Dr. Peter Thall, University of Texas, M.D. Anderson Cancer Center
  Course 4: Innovative Cost-Effective Designs for Oncology Drug Development
        GBLC 502 by Dr. Cong Chen, Merck & Co., Inc.
Biopharmaceutical Summer Academy 2019

August 5th - August 16th

This two week summer academy will be an immersive, collaborative, dynamic and academic experience for students who are planning to pursue or explore a career as a statistician/programmer in pharmaceuticals and health analytics. This program aims to bring together statisticians, clinicians, regulators, drug safety, medical writers, marketers and academics who will provide guidance on drug development, their perspective on an out-standing statistician/programmer and what can get you there.

Sponsored by: Boehringer-Ingelheim

UCONN
COLLEGE OF LIBERAL ARTS AND SCIENCES
DEPARTMENT OF STATISTICS
Week 1

Organizers
Boehringer Ingelheim: Qiqi Deng and Dooti Roy
UConn: Ming-Hui Chen, Dipak K. Dey, Guanyu Hu, Victor Hugo Lachos Davila, and Yuping Zhang
Administrative Support: Tracy Burke and Anthony Luis, UConn
Webmaster: Daeyoung Lim

August 5-8 @ Ridgefield
Monday 8/5
1. Panel Discussion: The Big picture and the connecting dots
2. Introduction for the expertise and the hot topics in UConn research
3. Q&A with members from various BDS functions

Tuesday 8/6
1. Case Study
2. Complete Legal Paperwork
3. Trial Statistical Analysis Plan (TSAP)
4. Life Cycle Data and SDTM

Wednesday 8/7
1. Trial oversight meetings during trial conduct (TOM, RPM, MQRM etc)
2. Database Lock and Clinical Study Report
3. Bridging sciences to practice

August 8 @ Storrs
ADaM data and Simulation

August 9 @ Block Island
Cross-culture Field Trip
Participants

Stephanie Beron  Guest
Srawan Bishnoi  PhD
Seth Bittig  UG
Michael Boyles  BIST
Zhehao Cao  BIST
Patrick Connolly  UG
Jingxian Fang  BIST
Tiancheng Hou  STAT
Jian Hu  BIST
Yang Jiao  PhD
Yizhou Jin  STAT
Yuen Tsz Lau  PhD
Camila Lecaros  UG
Ziyue Li  BIST
Songlu Li  BIST
Jing Li  PhD
Jiaqi Li  STAT
Peiran Liu  BIST
Fang Liu  Guest
Zhongmao Liu  PhD
Pang-Yu Liu  STAT
Yuzhou Long  BIST
Yiwei Ma  BIST
Yang Qiao  PhD
Yufan Shu  BIST
Jiyeon Song  PhD
Xinyi Tang  STAT
Duo Wang  BIST
Feng Wang  STAT
Yuanyuan Wang  STAT
Meiruo Xiang  PhD
Yufei Xiao  BIST
Wenqing Yu  BIST
Wenlin Yuan  PhD
Xiaoqi Yue  STAT
Jiaojiao Zhou  BIST
Haiwei Zhou  PhD
Hong Zhu  BIST
THANK YOU!
To all of the hardworking Faculty, Staff and students who participated!
Section II
Meet our Faculty
Haim Bar
Associate Professor

Editorial Boards
Sankhya A, Associate Editor.

Invited Faculty Talks
A Mixture Model to Detect Edges in Sparse Co-expression Graphs.

Grants
NSF Award #: 1612625. PI. Variable Selection in the High Dimensional, Low Sample Size Setting - Beyond the Linear Regression and Normal Errors Model.

National Science Center - Poland. Identification of transcriptomic markers of maize resistance to cereal aphids. PI Dr. Hubert Sytykietcz.

Travelers. Modeling and analysis of large insurance claim and occurrence data: A partnership between UConn and Travelers. PI: Dr. Dipak Dey.

Outreach
Chaired the organizing committee of the 2018 Distuinguished Statistician Colloquium (honoring Prof. Grace Wahba, University of Wisconsin, Madyson)

Member of the organizing committee of the 2019 New England Statistics Symposium.

Selected Publications
- Bar, H. and Schifano, E. D. Differential variation and expression analysis. 2019. Stat
Kun Chen
Associate Professor

Editorial Boards
Sankhya, The Indian Journal of Statistics, Associate Editor. (January 2016 - Present)

Invited Faculty Talks
Kun Chen was invited to give talks at Department of Biostatistics, Columbia University, New York in December 2018, and at Department of Biostatistics, Yale University, New Haven in April 2019. Kun gave invited talks at 2019 Symposium on Data Science and Statistics, Seattle, WA in May 2019, and at Joint Statistical Meeting, Denver in August 2019.

Grants
Collaborative Research: Comprehensive heterogeneous response regression from complex data. National Science Foundation (1718798). Principal Investigator; $250,000; 09/01/2017—08/31/2020. Active.

Improving the identification of patients at risk of suicide. National Institutes of Health (R01-MH112148). Principal Investigator on sub-award; $432,886; 07/01/2017—06/30/2020. Active.

Integrative multivariate analysis with multi-view data. National Science Foundation (DMS-1613295). Principal Investigator; $150,000; 09/01/2016—08/31/2020. Active.

Data Science Lab: Real-world data science problems meet future data scientists. UConn CLAS Fund for Innovative Education in Science. Co-Principal Investigator (with Elizabeth Schifano and Jun Yan); $65,000; 01/01/2017—12/31/2019. Active.

Modeling and analysis of large insurance claim and occurrence data: a partnership between UConn & Travelers. Travelers Insurance. Co-Principal Investigator (Principal Investigator: Dipak Dey); 08/01/2016—07/31/2020. Active.

Outreach
Kun Chen serves as the Secretary of the New England Statistical Society and as a member of the Connecticut All-Payer Claims Database (APCD) Data Release Committee under Connecticut State Office of Health Strategy. At UConn, Kun serves as a member of the University General Education Oversight Committee and a co-chair of its Q-Subcommittee.

Selected Publications
Ming-Hui Chen
Professor & Department Head

Professional Societies
Ming-Hui Chen was elected to Fellow of International Society for Bayesian Analysis in 2016, the Institute of Mathematical Statistics in 2007 and Fellow of American Statistical Association in 2005. He is an elected member of the International Statistical Institute. He is a member of the American Association for the Advancement of Science (AAAS), the Institute of Mathematical Statistics, American Statistical Association, The International Biometric Society (ENAR), the International Society for Bayesian Analysis, Section on Bayesian Statistics, International Chinese Statisticians Association, Korean International Statistical Society, and New England Statistical Society. He is also an ASA accredited Professional Statistician (PStat).

Editorial Boards
Ming-Hui Chen is Co Editor-in-Chief of Statistics and Its Interface, Associate Editor of Journal of the American Statistical Association, Associate Editor of Lifetime Data Analysis, and Associate Editor of Journal of Computational and Graphical Statistics.

Invited Faculty Talks
Ming-Hui Chen delivered Taft Lecture on “Statistical Methods for Stream Data” at the Taft Research Center, in conjunction with the College of Arts & Sciences & Department of Mathematical Sciences, University of Cincinnati, November 8, 2018 (https://www.artsci.uc.edu/departments/math/news-events/taft-lectures.html). He also gave a 3-hour tutorial lecture on “Recent Development on Bayesian Clinical Trial Designs Using Historical Data” at the 74th Annual Deming Conference on Applied Statistics, Atlantic City, NJ, December 3, 2018.

He co-presented a full day short course on “Survival Analysis” Part III: “Joint Modeling of Longitudinal and Survival Data”, at Pratt & Whitney, East Hartford, CT. November 2, 2018. This short course was sponsored by New England Statistical Society. Part I (Introduction to Survival Analysis: Basic Models and Model Assessment) and Part II (Models and Methods for Recurrent Event Data) were presented by Gregory Vaughan of Bentley University and Jun Yan, respectively. He co-presented with Fang Chen of SAS Institute a one full-day short course on “Bayesian Inference and Clinical Trial Designs Using Historical Data” at ENAR 2019 Spring Meeting, Philadelphia, PA, March 24, 2019. He presented a half-day short course on “Power Prior: Incorporating Historical Data for Bayesian Inference and Designs of Clinical Trial” at ICSA 2019 Applied Statistics Symposium, June 9-12, 2019, Raleigh Convention Center, NC. He also co-presented with his former PhD student, Jing Wu, of the Rhode Island University a Short Course (4 full days) on “Bayesian Statistics” in the 2019 Statistics Summer School, School of Mathematics and Statistics, Yunnan University, Kunming, China, July 16-July 19, 2019.

He also delivered invited seminar or colloquium talks on “Bayesian Design of Superiority Clinical Trials for Recurrent Events Data with Applications to Bleeding and Transfusion Events in Myelodyplastic Syndrome” at Biometrics Department, Vertex Pharmaceuticals, Inc., Boston, MA, November 1, 2018; “Recent Innovation and Development in Joint Models for Longitudinal and Survival Data” in Department of Mathematical Sciences, University of Cincinnati, November 9, 2018; “A New Bayesian Model for Longitudinal Count Data with Many Zeros, Intermittent Missingness, and Dropout with Applications to HIV Prevention Trials” in Biostatistics Epidemiology & Research Design Seminar Series, Center for Clinical & Translational Science & Training, Cincinnati Children's Hospital Medical Center, University of Cincinnati, November 9, 2018; and “Partition Weighted Approach for Estimating Marginal Posterior Density with Applications” at Department of Statistics, Purdue University, November 30, 2018.

Grants


Outreach


Research Corner

Research Interests:

Bayesian Statistical Methodology, Bayesian Computation, Bayesian Phylogenetics, Categorical Data Analysis, Design of Bayesian Clinical Trials, DNA Microarray Data Analysis, Meta-analysis, Missing Data Analysis (EM, MCEM, and Bayesian), Monte Carlo Methodology, Prior Elicitation, Statistical Methodology and Analysis for Prostate Cancer Data, Statistical Modeling, Survival Data Analysis, and Variable Selection.

Selected Publications


Published Books


Zhiyi Chi
Professor & Associate Department Head

Editorial Boards
Applied Stochastic Models for Business and Industry

Grants

Selected Publications

- Z. Chi (2016). Random reversible Markov matrices with tunable extremal
Dipak Dey
Distinguished Professor

Professional Societies

Dipak Dey was elected to Fellow of International Society for Bayesian Analysis, the Institute of Mathematical Statistics and Fellow of American Statistical Association. He is an elected member of the International Statistical Institute. He is a member of the American Association for the Advancement of Science (AAAS), the Institute of Mathematical Statistics, American Statistical Association, The International Biometric Society (ENAR), the International Society for Bayesian Analysis, Section on Bayesian Statistics, International Chinese Statisticians Association, International Indian Statistical Association, and New England Statistical Society. He is also an ASA accredited Professional Statistician (P.Stat).

Editorial Boards


Invited Faculty Talks

- Invited Speaker, Department of Geography, University of Connecticut, Storrs, CT, April, 2019.
- Invited Speaker, fourth East Asia chapter of International Society of Bayesian Analysis, Kobe, Japan, July 2019.
- Invited Speaker at UConn Statistics Biopharmaceutical Summer Academy at Boehringer Ingelheim, Ridgefield, CT, August 2019.
- Invited Panelist at the UCONN Graduate School, Storrs, CT, August, 2019.

Grants


Unifying clinical support methods for preventing and managing opioid use disorder PIs: Aguiar, Derek; Tarakanova, Anna; Dey, Dipak; Coman, Emil In CHIP Ideas Lab, 25,000, September 1, 2019.

Outreach

- Mentor, NSF Ideas Lab on “Statistics in Chemistry”.
- Member, Connecticut Institute of Clinical and Translational Sciences (CICATS).
- Member, Core Research Group of the Center for Health Communication and Marketing.
- Member, Advisory Committee of the Center for Environmental Sciences and Engineering (CESE).
- Member, Institute for Collaboration on Health Intervention and Policy (In CHIP).
- Member of the Hong Kong Research Grant Council, United Arab Emirates and Kuwait Research Foundation.
- Referee on the statistical parts of “Nature”.
Selected Publications


Published Books

• (With P. Muller and D. Sinha). Practical Nonparametric and Semiparametric Bayesian Statistics (also at Amazon.com) Springer-Verlag Lecture Notes Series, Volume 133, 1998 (with P. Muller and D. Sinha)
• (With N. Ravishanker) A First Course in Linear Model Theory Chapman and Hall, 2001 pdf file

Research Corner

Research Interests:

Joseph Glaz
Professor

Editorial Boards
Editor-in-Chief, Methodology and Computing in Applied Probability, since 1997, and Associate Editor, Sequential Analysis, since 2004.

Invited Faculty Talks
Invited lecture at the International Workshop in Applied Probability 2018, Eötvös Loránd University, June 17-21, Budapest, Hungary

Outreach
Joseph Glaz is a member of the Board of International Workshops in Applied Probability (IWAP). IWAP 2018 was held on June 18-21, 2018, in Budapest, Hungary. IWAP 2020 will be held in Thessaloniki, Greece, on June 15-18, 2020. He is a member of the Scientific Program Committee of the International Symposium on Applied Stochastic Models and Data Analysis, ASMDA, and Stochastic Modeling Techniques and Data Analysis, SMTDA. ASMDA 2019 was held in Florence, Italy, on June 11-14, 2019. SMTDA 2020 will be held in Barcelona, Spain, on June 2-5, 2020. He is a member of the oversight committee for an undergraduate minor in bioinformatics. He is also affiliated with Booth Engineering Center for Advanced Technology (BECATS).

Selected Publications

Published Books
Yuwen Gu
Assistant Professor

Invited Faculty Talks
- The ICSA Applied Statistics Symposium, Raleigh Convention Center, Raleigh, NC, 2019
- Statistical Society of Canada Annual Meeting, University of Calgary, Alberta, Canada, 2019

Grants
PI of UConn Research Excellence Program Grant (05/2019-06/2020)

Selected Publications
Ofer Harel
Professor

Editorial Boards

Ofer Harel is an Editor for The International Statistical Review and Associate Editor for Statistics in Medicine and Sankhya, the Indian Journal of Statistics, Series B. He is also on the Editorial Board of The Open Medical Informatics Journal and AIDS and Behavior.

Invited Faculty Talks

- Bentley University, Health Thought Leadership Network seminar (January, 2019)
  Department of Population Health, New York University, New York, NY (3 seminars in March, 2019)
- The 2019 ENAR Workshop - Fostering Diversity in Biostatistics (March, 2019)
  Department of Population Health, New York University (April, 2019)
- 17th Annual ASA CT Chapter Mini-Conference (April, 2019)
- Department of Biostatistics, Epidemiology and Informatics, Perelman School
  of Medicine, University of Pennsylvania (April, 2019)
- 13th international conference on Sampling Theory and Applications (July, 2019)

Grants

Ofer Harel is a PI on “Collaborative Research: Statistical Analysis of Partially Observed Shapes in Two Dimensions,” supported by National Science Foundation; a subcontract PI on “State Innovation Model/Round Two of Funding for Design and Test Assistance,” supported by Center for Medicare & Medicaid Services via grant awarded to the State of Connecticut Office of Healthcare advocate; he is Co-I on “Multilevel Resilience Trajectories in the Transition to Cancer Survivorship,” supported by National Institute of Health. Ofer Harel also has several sub-contracts from UCHC to fund number of graduate students.

Outreach

- Elected Chair-elect, chair, past chair for the Council of Sections Governing Board, American Statistical Association
- Elected to co-chair the International Conference for Health Policy Statistics (ICHPS), 2020
- Elected to teach five short courses related to missing data as part of the Council of Chapters traveling courses series
- Member, Biostatistical Methods and Research Design (BMRD) Study Section, Center For Scientific Review, National Institute of Health; Member, Data and Safety Monitoring Board (DSMB) for NCCIH grant “Mobile mindfulness to improve psychological distress after critical illness”
- Member, Data and Safety Monitoring Board (DSMB) for NIDA grant “Behavioral intervention to enhance HIV test/treat”
- Mentor, Diversity Mentoring Program, Joint Statistical Meeting, Baltimore, MD
- Mentor, Math Alliance.
Selected Publications


Published Books

Lynn Kuo
Professor

Invited Faculty Talks
She gave an invited paper on computing marginal likelihood at the 4th Eastern Asia Meeting on Bayesian Statistics, EAC-ISBA 2019 Conference at Kobe, Japan

Grants
She is a Co-PI of an NSF grant "Estimating the Bayesian Phylogenetic Information Content of Systematic Data" with Paul Lewis (PI), 2014-2020.

Outreach
- She is a Treasurer of New England Statistical Society, Inc.
- She has been the faculty advisor for the UConn Taiwanese Student Association.
- She has been a reviewer for Statistics in Medicine, Systematic Biology, PLOS One, Communications for Statistical Applications and Methods.
- She has also served as the 2019 co-chair for the Research Excellence Program (Math/Stats) at UCONN. She also served as a reviewer for the 2019 NESS IBM Student Paper Competition.

Selected Publications

Published Books
Editorial Boards
Associate Editor of S A N K H Y A Series B. Associate Editor of Brazilian Journal of Probability and Statistics. Associate Editor of Stats.

Invited Faculty Talks

Grants
Serves as a Co-PI on a research training grant from The Travelers Companies for "Modeling and Analysis of Large insurance Claim and Occurrence Data: A Partnership Between UConn and Travelers; Co-PI on a research grant from FAPESP, Brazil, for "Semiparametric mixed effects models for multiple censored data" from 06/25/2018 to 08/20/2018.

Outreach

Selected Publications

Published Books
Nitis Mukhopadhyay
Professor

Editorial Boards
Nitis Mukhopadhyay has been the Editor-in-Chief of Sequential Analysis journal since 2004. He was a Guest Co-Editor (with Carlos A. Coelho and Thomas Mathew) of a special issue the Journal of Statistical Theory and Practice in honor of the 70th birthday of Professors Bimal K. Sinha and Bikas K. Sinha, March 2018, no.1, 12, pp. 1-154. He is a member of the Advisory Board for Sri Lankan Journal of Applied Statistics and also Associate Editors for the Communications in Statistics (both series) and Calcutta Statistical Association Bulletin.

Invited Faculty Talks
- Professor Mukhopadhyay had spent the Fall semester 2018 on sabbatical leave which spilled into the later part of Spring 2018 and the first part of Spring 2019. He visited a number of countries and leading scholarly institutions as a research collaborator and presented a large series of invited lectures on multiple topics: Aachen University (Aachen, Germany), Myonji University, Yonsei University, and Seoul National University (Seoul, Korea), Tsukuba University (Tsukuba, Japan), NIT-Durgapur (Durgapur, India), Presidency University (Calcutta, India). He also gave special invited lectures at the University of Texas-Dallas, University of New Orleans, and Utah Valley University.
- Arranged and chaired 3 invited papersessions at the IWAP (Budapest, Hungary).
- Visisted University Federal Ouro Prete(brazil) as the university’s guest and gave 5 lectures in statistics.econometrics, big data, education in Ouro Prete and the capital BH of MG.Brazil.
- Gave a Keynote Lecture at the 6th African International Conference (Addama, Addis Ababa, Ethiopia), delivered aspecial invited lecture at the German Statistical Week (Linz, Austria).
- Delivered an invited presentation at the Calcutta Triennial (January 2019) hosted by the Calcutta University and Chaireda session.
- Delivered an invited presentation at the NESS (Hartford, Connecticut) hosted by UConn-Storrs the Calcutta University ina session organized by A. Polunchenko.
- Arranged and chaired 2 invited papersessions at the QPRC (Washington, D.C.) and gave an invited presentation in asession organized by S. Zacks in June 2019.
- Delivered an invited presentation at the IWSM hosted at the Binghamton University, New York and Chaired a number ofsessions.

Outreach
- International Program Committee member, IWAP(Budapest, Hungary).
- Was the Co-Chair and Co-Organizer for the IWSM (June 2019).
- Hosted the visits from Colleagues, SarathPeireis (Colombo, Sri Lanka), Debanjan Bhattacharjee (Utah Valley University) and Ivair R. Silva (Brazil and Harvard), on separate occasions for collaborative research on capture-recapture sampling strategies and statisticseducation.
Selected Publications

- (with Chen Zhang) EDA on the asymptotic normality of the standardized sequential stopping times, Part-I: Parametric models, Sequential Analysis(2018), 37:3, 342-374. 3.
- (with Shyamal K. De) Two-stage fixed-width and bounded-width confidence interval estimation methodologies for the common correlation in an equi-correlated multivariate normal distribution, Sequential Analysis (2019),38:2, 214-258. 4.
- (with Yan Zhuang) Two-sample two-stage and purely sequential methodologies for tests of hypotheses with applications: comparing normal means when the two variances are unknown and unequal, Sequential Analysis (2019), 38:1, 69-114.

Published Books

Nitis Mukhopadhyay Guest Co-Editor (with Carlos A. Coelho and Thomas Mathew) of a special issue entitled Advances in Statistical Planning and Inference on behalf of the Journal of Statistical Theory and Practice in honor of the 70th birthday of both Professors Bimal K. Sinha and Bikas K. Sinha, March 2018, no.1, 12, pp.1-154.
Vladimir Pozdnyakov
Professor

Editorial Boards
Associate Editor of Journal of Mathematical Analysis and Applications.

Invited Faculty Talks

Selected Publications


Nalini Ravishanker
Professor

Editorial Boards

Invited Faculty Talks
- March 2019. Tel-Aviv University. Modeling Inter-event Durations in High-Frequency Time Series.

Outreach
- President, International Society for Business and Industrial Statistics (2017-2019)
- Faculty Coordinator, Statistics for the UConn ECE Program.
- VP for Education, NESS (2017-2020)

Grants
Center for Advanced Multimodal Mobility Solutions and Education, US Department of Transportation – University Transportation Center: Are Transportation Network Companies Synergistic with Other Shared Ride Mode Offerings? An Exploratory Analysis of Demand Data from NYC Utilizing High Resolution Spatiotemporal Models, Co-PI, Sep 2018 – Sep 2019.

Selected Publications


Published Books


Elizabeth Schifano
Assistant Professor

Editorial Boards
Associate Editor: Journal of Computational and Graphical Statistics.

Invited Faculty Talks
Elizabeth Schifano delivered an invited keynote presentation at the University of Toronto's Department of Statistical Science Research Day held at the Fields Institute, Toronto, ON, in April 2019. She also presented an invited talk at the Big Data and Information Analytics Conference, Houston, TX, December 2018.

Grants
Elizabeth Schifano was a co-investigator on an American Heart Association study with PI Beth Taylor, entitled “Near Infrared Spectroscopy (NIRS) to Diagnose Statin Myopathy” (2017-2019), and is currently a co-investigator on an Oncology Nursing Society Foundation grant with PI Wanli Xu, entitled “Microbiota Modulation of Chemotherapy-related Pain and Fatigue in Colorectal Cancer Patients” (2019-2021). With co-PIs Kun Chen and Jun Yan, Elizabeth was also awarded a grant funded by the University of Connecticut entitled “Data Science Lab: Real World Data Science Problems Meet Future Data Scientists” (2017-2019).

Outreach
Elizabeth Schifano is an elected member of the Applied Public Health Statistics Section Council of the American Public Health Association (APHA), and served on a review panel for the Federal Motor Carrier Safety Administration (US Department of Transportation) in June-July 2019.

Selected Publications
Rick Vitale
Professor

Editorial Boards
Methodology and Computing in Applied Probability

Selected Publications


Invited Faculty Talks

- The ICSA-Canada Chapter 2019 Symposium, Queen’s University in Kingston, Ontario, Canada, August 09-11, 2019.
- The Office of Biostatistics Research seminar, National Heart, Lung and Blood Institute, National Institutes of Health, Bethesda, MD, May 14, 2019.
- The 4th International Conference on Big Data and Information Analytics Theories, Algorithms and Applications in Data Science, Houston, TX, December 17-19, 2018.
- The 11th International Conference of the ERCIM WG on Computational and Methodological Statistics, University of Pisa, Pisa, Italy, December 14-16, 2018.
- NextGen: Data Science Day, Yale University, New Haven, October 27, 2018.
- Department of Mathematical Sciences, Worcester Polytechnic Institute, Worcester, MA, September 10, 2018.
- Department of Mathematical Sciences, Indiana University-Purdue University Indianapolis, Indianapolis, IN, September 7, 2018

Grants


Outreach

The first UConn Stat-a-thon Committee

Selected Publications

Xiaojing Wang
Associate Professor

Editorial Boards
Associate Editor, Sankhya A, 01/2019-present

Invited Faculty Talks
Xiaojing Wang gave the invited talk in the 33rd New England Statistics Symposium. In addition, Xiaojing Wang presented an invited seminar talk in the Department of Mathematics and Statistics, Boston University.

Grants
Xiaojing Wang is the PI on NSF Faculty Early Career Development Program (CAREER) Award for “CAREER: Advancing Latent Variable Statistical Modeling for the Analysis of Big and Complex Longitudinal Data to Promote Personalized Learning” from 09/01/2019-08/31/2024. She is also the PI on Seed Grants to Development Interdisciplinary Research Teams for “The Development of Interdisciplinary Team on the Analysis of Gamified Assessments”, 09/01/2019-08/31/2020. In addition, she has completed a research grant of Sanofi-Aventis, U.S., as the PI for “Development of Statistical Methodology for Identifying Respondent Subgroups Using Biomarker Signature” from 05/23/2016 to 08/31/2019.

Outreach

Selected Publications
Jun Yan
Professor

Editorial Boards
Associate editor, Ecological and Environmental Statistics, 2014 --- Present.

Invited Faculty Talks
- Integrative Survival Analysis with Uncertain Event Times in Application to a Suicide Risk Study, 07/05/2019, School of Statistics, Shanxi University of Finance and Economics.
- Acrobatic Regression in Detection and Attribution of Climate Change, 07/03/2019, Guanghua School of Management, Peking University.
- An Online Updating Approach for Testing the Proportional Hazards Assumption with Streams of Survival Data, 06/30/2019, School of Mathematics, Jilin University.

Grants

Outreach
- Awards Chair: 2017-2019, ASA Section on Statistical Computing and Section on Statistical Graphics.
- Editor: ASA Lifetime Data Science Section Newsletter, 2016 --- Present.

Selected Publications

Published Books
Yuping Zhang
Assistant Professor

Editorial Boards
- Member of the Review Editorial Board, *Frontiers in Genetics* (section Bioinformatics and Computational Biology)

Invited Faculty Talks
- ICSA-Canada Symposium 2019 Advances and Innovations in Statistics and Data Science, Session: Recent advances of statistical methods for emerging high-dimensional biomedical applications, Kingston, ON, Canada.
- International Workshop on Applications of Probability and Statistics to Biology (in honor of Professor Minping Qian’s 80th birthday), Shanghai, China.

Grants
University of Connecticut Research Excellence Program Award (PI)

Outreach
- Member of the local organizing committee for the Pfizer/ASA/UConn Distinguished Statistician Series, Storrs, CT
- Leading the activities of promoting Department of Statistics of UConn at the New England Statistical Society Data Science Day (October 27, 2018) in New Haven, Connecticut
- Leading the activities of promoting the New England Statistical Society at the R/Medicine 2018 Conference (September 7-8, 2018) in New Haven, Connecticut
- Participating in the 2018 DREAM Single Cell Transcriptomics Challenge.
- Faculty participant in 2019 UConn Statistics Biopharmaceutical Summer Academy with Boehringer Ingelheim and Pfizer Inc.

Selected Publications
Yao Zheng  
Assistant Professor

New Faculty Member Fall 2019

Yao is the newest addition to the Department as of August 2019. She completed her PhD and BSc (1st class honours) in the Department of Statistics and Actuarial Science at the University of Hong Kong in 2017 and 2013, respectively. Before joining UConn as an assistant professor in Fall 2019, she had been a postdoctoral fellow in the Department of Statistics at Purdue University since 2017. Some of her earlier academic experiences also include a preparatory year at Tsinghua University (as required by HKU for admitted mainland Chinese students back then) from 2008 to 2009 and a half-year exchange at UCLA in 2011.

Selected Publications


Research Corner

I specialize in statistical learning of time-dependent data. My current research focuses on two main problems: (1) non-asymptotic statistical learning and (2) statistical and computational methods for the analysis of a large number of time series. The objective of the former is to develop statistical methods that work well even when the sample size is very small, which usually cannot be achieved by conventional asymptotic tools. The objective of the latter is to develop an efficient, robust, and computationally feasible statistical inference procedure that accommodates the high dimensionality of the data.

I am very excited to join the Department of Statistics at UConn, and I am looking forward to contributing to its academic excellence by working closely with the wonderful colleagues and students in the department!
Faculty Awards & Achievements

- Haim Bar Received Tenure and Promoted to Associate Professor

- Xiaojing Wang Received Tenure and Promoted to Associate Professor

- Guanyu Hu, a Postdoctoral Research Associate, has been selected as a recipient of the 2019 ICSA China Conference Junior Researcher Awards.

- UConn Early College Experience recognized the Department of Statistics’ Professor Nalini Ravishanker with the Thomas E. Recchio Faculty Coordinator Award for Academic Leadership at the Awards Celebration Reception on April 26, 2019.

- The Department of Statistics congratulates Professors Elizabeth Schifano, HaiYing Wang, and Yuping Zhang for her election as a member of the International Statistical Institute.

- Professor Xiaojing Wang has just received the prestigious National Science Foundation’s CAREER Award with “Advancing Latent Variable Statistical Modeling for the Analysis of Big and Complex Longitudinal Data to Promote Personalized Learning” (September 1, 2019 – August 31, 2024)
Section III
Student News
Graduate Student Appreciation Week

The Department of Statistics hosted their first ever Graduate Student Appreciation Week Event in collaboration with the Graduate School this past Spring 2019. Our Program Administrator Anthony Luis planned this event with the help of the Graduate Student Committee. We had over 100 Graduate Students come to the event and it was a major success. With lawn games such as Volleyball, Frisbee, Can-jam and Spike ball many students were able to interact and learn new things about one another. Thank you to Dog Lane Cafe for amazing catering services and to our Graduate Students for all of your hard work!

By: Anthony Luis
Annual Department Picnic & Graduate Student Awards

The Department of Statistics hosts an annual Fall picnic to allow new graduate students to get to know the current graduate students, faculty, staff and their families, as well as to acknowledge and provide well-deserving graduate students with Academic and Service Awards. The 2019 picnic was again held at Patriots Park Lodge which overlooks Coventry Lake. The Graduate Student Committee, together with Professors Elizabeth Schifano, HaiYing Wang, and Yuwen Gu, organized a lovely afternoon with over 90 people in attendance.

The picnic was once again a success, with beautiful weather, great food, wonderful conversation, a charming raffle, and outdoor games and sports.

By: Elizabeth Schifano
Student Awards & Achievements

- JooChul Lee has received KAUPA GOLD scholarship
- Ph.D. student Prince Allotey received an Honorable Mention for his application for the National Academies of Sciences, Engineering and Medicine’s Ford Foundation Fellowship (2019)
- PhD students Renjie Chen, Henry Linder, and Patrick Toman receive travel awards to 36th Quality and Productivity Research Conference (2019)
- Yishu Xue received one of the International Biometric Society Eastern North American Region’s (ENAR) Distinguished Student Paper Awards for the 2019 ENAR Spring Meeting in Philadelphia, PA.
- PhD students Xiaokang Liu and Wanwan Xu received honorable mention in SAM 2018 student poster competition
Recent Ph.D. Graduates

Linder, Matthew Henry - Oden Technologies
Liu, Kangyang - CTO Office, Motorola Solutions Company
Liu, Yang - Upstart
Mao, Disheng - Travelers Insurance
McLaughlin, Paul - Continuing Research
Meng, Qian - Trinity
Wang, Wenjie - Eli Lilly and Company
Xue, Yishu - Travelers Insurance
Ye, Tairan - Liberty Mutual Insurance
Zheng, Di - Liberty Mutual Insurance

Congratulations to the Class of 2019 Graduates!
Section IV
Alumni Corner

We would love an update on your current activities. Please send updates (professional and/or personal) to a.luis@uconn.edu to be included in the next issue of the newsletter.

Please be sure to include the year you graduated and the degree received in your email.

Interested in supporting the department?

We welcome alumni donations, which may be used for graduate fellowships, travel awards that allows faculty and students to present their research at conferences, and for special events such as seminars and lectures. Please contact us for more information on how you can support the Department of Statistics.

Thank you and we look forward to hearing from you!

-The Department of Statistics
2019 Distinguished Alumni Award

By: Lynn Kuo

The department is proud to select Dr. Patrick Cantwell as the recipient of the 2019 UConn Statistics Department Distinguished Alumna/Alumnus Award. Dr. Cantwell is currently chief of the Decennial Statistical Studies Division at the U.S. Census Bureau. He and his staff are responsible for developing and implementing statistical procedures used in the decennial census, its coverage survey, the American Community Survey, and geographic programs related to the Master Address File. At the Bureau, he has developed and implemented statistical methods in various areas, including household surveys, business surveys, and decennial census programs. Pat received an A.B. in mathematics from Harvard University, and an M.S. and Ph.D. in statistics from the University of Connecticut. He has been a member of the American Statistical Association for almost 45 years, and the editorial boards of the Journal of Official Statistics for 25 years, and Survey Methodology for 15 years. He is also an ASA fellow elected in 2013. In receiving this distinguished Alumna/Alumnus award, Dr. Cantwell gave a presentation on campus “Statistical Methods at the U.S. Census Bureau: From Simple Statistical Theory to Complex Practical Application”. He started the talk by giving some background on the Census Bureau, then he talked about (1) Measuring coverage in the census using dual-system estimation, (2) Protecting confidentiality; from randomized response to differential privacy, and (3) Measuring unemployment; rotation designs and composite estimation. The interesting talk was well attended and well received. His slides have been posted https://stat.uconn.edu/wp-content/uploads/sites/729/2019/09/UCONN-09-18-19-cantwell-for-posting.pdf. After the talk, the department also hosted a dinner party in his honor at the Geno’s Grill in Storrs.

From Left to Right:
Ming-Hui Chen, Patrick Cantwell, Lynn Kuo
Alumni Awards & Achievements

• Patrick Cantwell has been awarded the 2019 UConn Statistics Department Distinguished Alumni Award

• Former Ph.D. student Seongho Song has been promoted to the rank of Full Professor at University of Cincinnati (2019)

• Former Ph.D. student, Shariq Mohammed, Research Fellow in Computational Medicine and Bioinformatics has received a scholars award from the Precision Health at University of Michigan. (2019)

• Former Ph.D. student Steven Chiuou, Assistant Professor at UT-Dallas has been approved for ISI Elected Membership. ISI Elected membership is open to individuals who are established in their careers and have made significant contributions to the statistical profession. (2019)

• Former student Sudipto Banerjee, Ph.D. (2000), Professor and Chair of Dept. of Biostatistics, UCLA has been awarded the 2019 George W. Snedecor award

• Former student Karthik Bharath, Ph.D. (2012) has been promoted to Associate Professor at the University of Nottingham, UK. (2019)

• Former student Feng Guo (Ph.D 2007) was just recently promoted to the rank of Full Professor at Virginia Tech. (2019)

• Former student Chun Wang (Ph.D. 2016) has been promoted to Director of Data Science at Liberty Mutual.

• Department alumni Dooti Roy, Gregory Vaughan, Jianan Hui, Junxian Geng won the Professional Category of Data Expo at JSM 2018 with presentation titled “Should You Pay Attention to Daily Weather Forecasts? An Exploration”. (2018)
Abstract:

Randomization was introduced into clinical trials by Bradford Hill in the 1940s. The RCT was revolutionary. It changed the stuff of medicine from case studies and expert opinion into a real science. The RCT became the gold standard. It was so revered that nobody wanted to change it or let others change it. As a consequence the RCT has remained pretty much the same over the last 80 years. Until now.

Bayesians have always thought they knew better. But only recently have Bayesians made inroads into clinical trial design, taking the RCT to new levels. I will explain why and how this happened. I will give examples of clinical trials in the new millennium. I will focus on adaptive basket trials and adaptive platform trials because they seem to be the niche most clearly having a role for the Bayesian approach. Both belie the old saw, “Keep it simple, stupid.” In medicine at least, KISS will come to mean, “Keep it simple and stupid.”

Donald Berry is professor in the Department of Biostatistics of the University of Texas M.D. Anderson Cancer Center. He received his Ph.D. in statistics from Yale University and has served on the faculty the University of Minnesota and Duke University. He has held endowed positions at Duke and M.D. Anderson. He has authored many books on biostatistics and over 400 peer-reviewed articles. He is a Thomson Reuters Highly Cited Researcher in recognition of ranking among the top 1% of most cited researchers in Clinical Medicine. He has received numerous research grants from the NIH and NSF and is Fellow of the American Statistical Association, the Institute of Mathematical Statistics, and the International Society of Bayesian Analysis. He has designed many innovative clinical trials in cancer and in virtually every other therapeutic area, including adaptive Bayesian trials. He is founder and co-owner of Berry Consultants, a company that has designed and helped run innovative trials for pharmaceutical companies, medical device companies, and for international consortia in Alzheimer’s disease, cancer, Ebola, sepsis, community-acquired pneumonia and other diseases.

April 3, 2019
Robert Makuch is a Professor in the Department of Biostatistics at the Yale School of Public Health and Director of the Regulatory Affairs Track. A graduate of the University of Connecticut (BA), University of Washington (MA – mathematics), and Yale University (MPhil, PhD), Professor Makuch worked at the National Cancer Institute (NCI) and the World Health Organization’s International Agency for Research on Cancer early in his career. He also worked for six months at the National Cancer Research Center in Tokyo, Japan.

He also was heavily involved in HIV research from the mid 80's through the early-mid 90's. He participated on the data monitoring committee for the original AZT vs. placebo randomized clinical trial in AIDS patients, and served on numerous committees for the NCI and the National Institute of Allergy and Infectious Diseases. He also worked closely with the Food and Drug Administration (FDA), developing and implementing more than 200 HIV studies. He also served as a Special Government Employee (SGE) to the FDA. He returned to Yale in 1986, and has worked extensively on methodologic issues in clinical trials and large population-based studies since. Another area of current interest involves detection of rare adverse drug events, especially in the post-marketing environment.

These areas of methodologic research evolved as a result of his continued interest (since the mid 1980s) in regulatory affairs science. In addition, Makuch developed a regulatory affairs track at YSPH for graduate and post-doctoral level students, and over the past 10 years has been the leader of more than 25 training programs for senior delegations of the Chinese Food and Drug Administration. His areas of medical application include cancer, HIV, arthritis, and cardiovascular disease.

In 2003, Makuch received the American Statistical Association Fellow Award for his numerous contributions to the field. In 2008, Makuch was received a Distinguished Alumni Award from the University of Connecticut. In 2012, Makuch was nominated to serve on the University of Connecticut Dean's Advisory Board for the College of Liberal Arts and Sciences. He also has been a decades-long member of Phi Beta Kappa. He also developed a 5-year biostatistics training program in Japan, in collaboration with the Japanese government. His primary research interests continue to be methodologic issues in the design, conduct, analysis, and interpretation of clinical and large-population/epidemiologic studies. Design and sample size considerations for Phase IV studies is another active research area, in which a new class of hybrid designs has been proposed for scientific and regulatory purposes to detect rare adverse events.
Abdus Sattar, Case Western Reserve University
Modeling of High-Dimensional Clinical Longitudinal Oxygenation Data from Retinopathy of Prematurity

Tim Killeen, University of Connecticut
A Bivariate Test for Location Based on Data Depth

Xinwei Deng, Virginia Tech
Convex Clustering for Generalized Linear Models with Applications to Purchase Likelihood Prediction

Junxian Geng, Boehringer Ingelheim
Probabilistic Community Detection with Unknown Number of Communities

Grace Wahba, University of Wisconsin-Madison
Pfizer/ASA/UConn Distinguished Statistician Colloquium Series

Vladimir Pozdnyakov, UConn
Discretely Observed Brownian Motion Governed by a Telegraph Process: Estimation

Peiyong Qu, University of Illinois
Multilayer Tensor Factorization with Applications to Recommender Systems

Lu Lu, Smith College
Applications of statistics and machine learning in credit scoring: a case study

Feng Guo, Virginia Tech
Driving Risk Assessment with the Naturalistic Driving Study

Victor Hugo Lachos-Davila, University of Connecticut
Censored Regression Models for Complex Data

Xia Wang, University of Cincinnati
Bayesian Hidden Markov Models for Dependent Large-Scale Multiple Testing

T.S.G. Perris, University of Moratuwa, Sri Lanka
Impact of Mathematics (Level 1 and Level 2) on the Performance of Engineering Undergraduates in Level 2: A Case Study

Mengyang Gu, Johns Hopkins University
Calibration of imperfect mathematical models by multiple sources of data with measurement bias

Joshua Warren, Yale University
Spatiotemporal Statistical Methods for Monitoring Glaucoma Progression Using Visual Field Data
Daniel Neill, New York University
Subset Scanning for Event and Pattern Detection

Lorin Crawford, Brown University
Variable Prioritization in "Black Box" Statistical Methods

Youngdeok Hwang, Sungkyunkwan University
Statistical Estimation of Air Pollution Through Integration of Physical Knowledge

Yao Zheng, Purdue University
Finite Time Analysis of Vector Autoregressive Models under Linear Restrictions

Wen Zhou, Colorado State University
Estimation and Inference of Heteroskedasticity Models with Latent Semiparametric Factors for Multivariate Time Series

Nicholas Henderson, Johns Hopkins University
Estimating heterogeneous treatment effects with censored data via fully nonparametric Bayesian accelerated failure time models

Jun Yan, University of Connecticut
Generalized scale-change models for recurrent event processes under informative censoring

Joseph Cappelleri, Pfizer
Advancing Interpretation of Patient-Reported Outcomes

Stephanie Hicks, Johns Hopkins University
Making data science accessible world-wide in the Johns Hopkins Data Science Lab

Erin Conlon, University of Massachusetts
Parallel Markov chain Monte Carlo for Bayesian hierarchical models with big data, in two stages

Victor Pena, CUNY
Criteria for Bayesian hypothesis testing in two-sample problems

Linglong Kong, University of Alberta
A General Framework for Quantile Estimation with Incomplete Data

Donald Berry, University of Texas
The Bayesian Revolution in Medical Research
Patrick Flaherty, University of Massachusetts
MAP Estimation for the Gaussian Mixture Model via Modern Optimization Methods

Debanjan Chattarcharjee, Utah Valley University
Sequentially Estimating the Required Optimal Observed Number of Tagged Items with Bounded Risk in the Recapture Phase Under Inverse Binomial Sampling

Bhramar Mukherjee, University of Michigan
Handling Sampling and Selection Bias in Phenome-wide Association Studies

Francis Zwiers, University of Victoria
On the challenge of making reliable inferences about extreme precipitation events

Dipankar Bandyopadhyay, Virginia Commonwealth University
Bayesian Nonparametric Policy Search with Application to Periodontal Recall

Karthik Bharath, University of Nottingham
Invariant aspects of functional data and their statistical implications
In this presentation, Yuchen Fama and Nathan Lally gave an overview of Munich Re Group and HSB’s (a subsidiary of Munich Re in Hartford, CT) data science capabilities, including big data analytic infrastructure, ML/AL tool stack and use cases. They also gave a deep dive into equipment breakdown loss modeling using Bayesian ML and spatial modeling based on left-truncated/right-censored distribution as well as model validations using quantile residuals.

They were also hiring talented graduate students as their part-time research fellow for HSB’s data science team. Students were welcome to bring their resumes and have individual discussions on job opportunities.
In Late December 2018 Boehringer Ingelheim had 3 presenters Hongli Li, Feryal Tanriverdio, and Jessie Teng come and give an Introduction to Statistical Programming seminar. The focus was on how Statistics and Computer Science are both jointly used at BI. During this presentation they also touched on their 2018 Internships and upcoming 2019 Internships for students. A nice Panel discussion was held afterwards for students to have a Q&A. As well as on-site interviews and one-on-one meetings with students.
In March of 2019 New York Life sent over Rita Fuller and Nalin Aggarwal to come and meet with UConn MS and Ph.D. students. Their seminar was to learn about the company, their Data Science team as well as an overview of the different areas that the team supports and underwriting. Rita Fuller is the Head of Data Science Development within the Center for Data Science and Analytics. Nalin Aggarwal is the Corporate Vice President of Underwriting Data Science within the Center for Data Science and Analytics.
Robert Apruzese, Adjunct Lecturer
Haim Bar, Associate Professor
Tracy Burke, Secretary
Joseph Cappelleri, Adjunct Professor (Pfizer, Inc.)
Kun Chen, Associate Professor
Ming-Hui Chen, Professor and Head
Zhiyi Chi, Professor and Associate Head
Victor Hugo Lachos Davila, Professor
Dipak K. Dey, Distinguished Professor
Joseph Glaz, Professor
Yuwen Gu, Assistant Professor
Ofer Harel, Professor
Kent Holsinger, EEB Joint Appointment
Tania Huedo-Medina, Allied Health Joint Appointment
Lynn Kuo, Professor
Amir Kouzehkanani, Adjunct Lecturer
Paul Lewis, EEB Joint Appointment
Néhémyn Lim, Visiting Assistant Professor
Anthony Luis, Program Assistant II
Suman Majumdar, Associate Professor (Stamford)
Kathleen McLaughlin, Adjunct Lecturer
Nitish Mukhopadhyay, Professor
Vladimir Pozdnyakov, Professor and Director of Financial Math
Zhanna Pozdnyakova, Adjunct Lecturer
Nalini Ravishanker, Professor
Elizabeth Schifano, Assistant Professor
Naitee Ting, Adjunct Professor (Boehringer-Ingelheim)
Emiliano Valdez, Math Joint Appointment
Richard Vitale, Professor
Stephen Walsh, School of Nursing Joint Appointment
HaiYing Wang, Assistant Professor
Xiaojing Wang, Associate Professor
Jun Yan, Professor
Yuping Zhang, Assistant Professor
Yao Zheng, Assistant Professor

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