



Data Science, Statistics, and the Environment



April 21-22, 2017 Canisius College, Buffalo, New York

Welcome

On behalf of the whole UP-STAT 2017 organizing committee, I am truly delighted to extend to each and every one of you, a very warm and cordial welcome to the sixth annual conference of the upstate New York chapters of the American Statistical Association. This year, we are profoundly grateful to have our conference back in the awesome Science Hall of the campus of Canisius College.



Ernest Fokoué General Chair

UP-STAT 2017 ushers in our sixth con-

secutive year of successfully bringing together brilliant statistical minds from our upstate New York region and its surroundings, a remarkable milestone that could only be achieved thanks to the synergistic and committed collaborative effort of our core UP-STAT organizing committee.

We wholeheartedly thank Prof. Dr. Leonid Khinkis, President of the Buffalo Chapter of the ASA and Dr Adina Oprisan for co-chairing the local organizing committee and working tirelessly with this whole local team/committee to guarantee the smooth running of the conference.

I would also like to extend my heartfelt thanks to the entirety of the organizing committee and all the judges that help decide the awards and recognitions honoring our student participants.

It gives me exceedingly great joy to see that our vision of empowering students through the UP-STAT conference is taking shape and materializing beautifully: UP-STAT 2017 has successfully manifested our vision of having ever more student presenters: indeed out of the forty nine oral presentations gathered by our program chair, Professor Mike McDermott, thirty-four are authored or co-authored by a student. Besides, all the posters are authored by students. This is indeed a phenomenal achievement for us, and I personally celebrate all our students who are the future of our discipline and our country. This record-breaking participation of our students is a dream come true, as we hoped and envisioned from the inception of UP-STAT to make it a vehicle and a forum of expression and dissemination of knowledge for the graduate at UP-STAT 2017, to use the UP-STAT conference series as a vehicle to train their research students in the art of participating in scholarly activities.

For the second year in a row, selected manuscripts from the UP-STAT conference will be peer-reviewed for ultimately publication in Mathematics for Applications, a reputable journal indexed/abstracted in MathSciNet.

UP-STAT 2017 kicks off on Friday, April 21st, 2017, which coincides with Earth day. Our conference theme: "Data Science, Statistics and the Environment" captures the spirit of that day quite accurately, and we further stressed the importance of that theme by putting together a panel to discuss various aspects related to mother Earth, the environment, data science and statistics. I anticipate a very insightful and fascinating panel discussion, especially given the variety and diversity of the members of the panel.

As always, the conference theme was chosen to accurately and precisely

2

capture some of the emerging and cutting-edge aspects of statistical science and data science, ranging from theory and methodology to practical applications and this year the subtle aspects of environmental science.

We deem ourselves fortunate and truly blessed that our keynote speaker, Dr Robert Bell from Google, is a world class leader in statistics rooted in a strong theoretical background but crucially with a worldwide reputation of being a great speaker and a brilliant practitioner in applied statistics, machine learning and data science. Dr Bob Bell is widely known for being the winner of the \$1 million NetFlix prize with the Collaborative Filtering work that he and his team perfected to emerge as the best team in that challenging recommender systems problem.

Dr Bell will first give our Fr. Haus lecture this year on aspects of record linkage, but of course will also give us the highly anticipated and long awaiting keynote lecture featuring some of the lessons he and his team learned from that famous Netflix prize. This promises to be a powerfully enriching lecture and you want to make sure that you don't miss it.

For the second year in a row, our conference kicks off on Friday with topclass tutorials, (a total of five this year), and we intend to continue to offer at each subsequent UP-STAT conference a delicious menu of cutting-edge tutorials to keep our attendees abreast of state-of-the-art statistical science techniques and methods.

The conference program is very rich and diverse. I therefore strongly recommend that you take time to carefully select the talks that are the most appealing to you, so that you make the most of your UP-STAT experience. Finally, I strongly encourage each one of you to reach out to other attendees and make this an opportunity to expand your network of statistically-minded collaborators and friends.

On behalf of the organizing committee, I wish to extend my sincere and grateful thanks to all our generous sponsors whose donations and contributions have been vital to the success of the UP-STAT conference series. Thanks to generous sponsorship, we are able to attract and motivate students with a variety of prizes for oral presentations, posters, and data competition. Also, I offer grateful thanks to Mark Gillespie, Communications, Marketing, and Recruiting Manager for the RIT College of Science, for designing our conference poster and program booklet.

I would also like to thank each one of you, precious attendee, for honoring us with your presence here. This conference is for you, and we hope, with your continued attendance, contribution and participation to make the UP-STAT conference series a forum of choice for the annual gathering of the statistical minds of upstate New York and its surroundings.

Enjoy your UP-STAT 2017 conference experience, and be sure to let us know how we can make it better in subsequent years.

With sincere gratitude,

ERNEST FOKOUÉ

Rochester Institute of Technology General Chair UP-STAT 2017

UP-STAT 2017 Conference Venue

Science Hall Canisius College 2001 Main St Buffalo, NY 14208

All events will take place in the Science Hall building. WiFi is available on campus. Friday's cocktail hour, poster session, and dinner will take place in the Student Center.

Conference participants will be able to park in the Science Hall parking ramp.



Sponsors



Canisius









UP-STAT 2017







Dr. Leonid Khinkis Canisius College



Dr. Yusuf Bilgic SUNY Geneseo



Mr. Padraic Neville SAS Institute



Dr. John Handley Conduent



Dr. Tanzy Love University of Rochester



Dr. Adina Oprisan Canisius College



Dr. Mel Crotzer Canisius College





UP-STAT 2017 Local Organizing Committee

Dr. Leonid Khinkis Canisius College

Dr. Mel Crotzer Canisius College

Dr. Adina Oprisan Canisius College

Dr. Jeff Miecznikowski University at Buffalo

Dr. Bruce Sun SUNY Buffalo State

Dr. William Brady University at Buffalo

Dr. James Huard Canisius College UP-STAT 2017 Keynote Speaker



ROBERT BELL Research and Machine Intelligence Google

Dr Robert Bell is a statistician in Research and Machine Intelligence at Google. He previously worked at RAND and AT&T Labs-Research. His current research interests include machine learning methods, analysis of data from complex samples, and record linkage methods.

Dr. Bell has served on the Fellows Committee of the American Statistical Association, the board of the National Institute of Statistical Sciences, the Committee on National Statistics, the advisory committee of the Division of Behavioral and Social Sciences and Education, and several National Research Council advisory committees studying statistical issues from conduct of the decennial census to airline safety.

UP-STAT 2017 Friday, April 21

REGISTRATION SH COM (SCIENCE HALL COMMONS)

10:30-12:30 **TUTORIAL**

9:30-10:30

▶ SH 036

Knowledge Discovery in Criminal Justice Data John McCluskey, Rochester Institute of Technology

Analyzing Gravitational Wave Data From the LIGO Open Science Center John Whelan, Rochester Institute of Technology

1:15-3:15 **TUTORIALS**

Introduction to Bayesian Statistical Modeling Ernest Fokoué, Rochester Institute of Technology > SH 1013 A

BioConductor and Mastery of Data Manipulation Martin Morgan, Roswell Park Cancer Institute ► SH 1013 B

Interactive Data Analysis and Modeling with JMP Pro 13 Mia Stephens, JMP, and Padraic Neville, SAS Institute ► SH 036

3:30-4:30 FR. HAUS MEMORIAL MATHEMATICS LECTURE → SH 1013 A-B

> **Diverse Applications of Probabilistic Record Linkage** Robert Bell, Research and Machine Intelligence, Google

4:30-5:55 PANEL DISCUSSION > SH 1013 A-B

Statistics and the Environment

Adina Oprisan, Canisius College (Co-Moderator) Leonid Khinkis, Canisius College (Co-Moderator) Elaine Hill, University of Rochester Medical Center Ernest Fokoué, Rochester Institute of Technology Terry Bisson, Canisius College H. David Sheets, Canisius College John Coles, CUBRC

POSTER SESSION 6:00-7:00

7:00-9:00 DINNER

UP-STAT 2017 Saturday, April 22

Program Summaries

8:00-9:00	BREAKFAST/REGISTRATION/ORIENTATION BREAKFAST/REGISTRATION/ORIENTATION
9:00-9:20	WELCOME → SH COM

9:30-10:15

PARALLEL SESSIONS

Session 1A: Innovations to Improve Introductory Statistics Courses ► SH 1053

Session 1B: Model Selection for Various Purposes via Statistical Learning ▶ SH 1028

Session 1C: Text Mining: Methods and Applications ▶ SH 1004

Session 1D: Analysis of Data from Electric Power System Networks and Astronomy → SH 1013 A

Session 1E: Applications of Statistics in Epidemiology > SH 1013 B

Session 1F: Statistics in Sports ▶ SH 1008

10:25-11:10 **PARALLEL SESSIONS**

Session 2A: Model-Based **Clustering with Longitudinal Applications** → SH 1013 B

Session 2B: Winning with Statistics in Sports ▶ SH 1008

Session 2C: Explorations of Echo State Networks ▶ SH 1028

Session 2D: Statistics and Technology > SH 1013 A

Session 2E: Detecting Hidden Structure in Data: Anomaly Detection and Cadre Learning ▶ SH 100

Session 2F: Issues in and Tools for Statistics Education ▶ SH 1053

PARALLEL SESSIONS 11:20-12:05

Session 3A: Time-Course Models with Complex Variance Structure in High-Dimensional Data Analysis ▶ SH 1004

Session 3B: Improving Educational **Effectiveness through Data** ▶ SH 1053

Session 3C: Applications of Multiple Imputation ▶ SH 1028

Session 3D: The Bradley-Terry **Model for Paired Comparisons** > SH 1013 A

Session 3E: Design of Experiments > SH 1013 B

Session 3F: Environment and Health > SH 1008

12:15-1:15 LUNCH

► SH COM

SESSION 4: PROVOST'S WELCOME AND KEYNOTE LECTURE 1:25-2:35 ► SH COM

2:50-3:35 **PARALLEL SESSIONS**

Session 5A: Applications of **Statistics in Environmental Studies** ▶ SH 1004

Session 5B: Curriculum Development for Data Science Education ▶ SH 1028

Session 5C: New Methods in **Multivariate and Nonlinear Regression** > SH 1013 A

Session 5D: New Methods in Bioinformatics > SH 1013 B

Session 5E: Analysis of Internet Measurements / Theory of Influence ▶ SH 1053

3:45-4:15 **AWARDS AND WRAP-UP**

► SH COM

Saturday Program Details

SESSION 1A

▶ SH 1053

Innovations to Improve Introductory Statistics Courses Session Chair: Bernadette Lanciaux Rochester Institute of Technology

9:30-9:50 CHALLENGES AND SUCCESSES OF FLIPPING AN INTRODUCTORY STATISTICS COURSE § Joseph Ciminelli Department of Biostatistics and Computational Biology, University of Rochester Medical Center

9:55-10:15 THE RELATIONSHIP BETWEEN ANXIETY AND PERFORMANCE IN A STATISTICS CLASS Susan Mason, Sara Ribble, and Brianna Chupa Department of Psychology, Niagara University

> Elizabeth Reid Department of Mathematics, Elmira College

SESSION 1B

▶ SH 1028

Model Selection for Various Purposes via Statistical Learning Methods and their Application Session Organizer/Chair: Yang Yang Department of Biostatistics SUNY at Buffalo

9:30-9:45 A COMPARATIVE STUDY OF SUBGROUP IDENTIFICATION METHODS FOR DIFFERENTIAL TREATMENT EFFECT: PERFORMANCE METRICS AND RECOMMENDATIONS § Yang Chen and Marianthi Markatou Department of Biostatistics, SUNY at Buffalo

> Demissie Alemayehu Pfizer Inc.

9:45-10:00 TUNING PARAMETER SELECTION IN THE LASSO WITH UNSPECIFIED PROPENSITY § Yang Yang and Jiwei Zhao Department of Biostatistics, SUNY at Buffalo

10:00-10:15 BOOSTRAPPING ESTIMATES OF CLUSTERING STABILITY WITH APPLICATIONS TO MODEL SELECTION AND LARGE-SCALE DATA §

Han Yu, Brian Chapman, Arianna DiFlorio, Ellen Eischen, David Gotz, Matthews Jacob, and Rachael Hageman Blair Department of Biostatistics, SUNY at Buffalo

SESSION 1C

▶ SH 1004

Text Mining: Methods and Applications Session Chair: John Handley, Xerox/Conduent

9:30-9:50 THE APPLICATION OF TOPIC MODELING IN THE COMMUNITY VIEWS ON THE CRIMINAL JUSTICE SYSTEM PROJECT § Sujeong Seo College of Science Rochester Institute of Technology

9:55-10:15 TEXT MINING WITH A BAYESIAN HIDDEN TOPIC MARKOV MODEL § K. Tyler Wilcox College of Science Rochester Institute of Technology

SESSION 1D

> SH 1013 A

Analysis Data from Electric Power System Networks and Astronomy Session Chair: Yusuf Bilgic, SUNY Geneseo

9:30-9:50 STATISTICAL APPROACHES TO ANOMALY DETECTION AND INTUITIVE VISUALIZATION OF PHASOR MEASUREMENT UNIT (PMU) DATA FROM ELECTRIC POWER SYSTEMS Ernest Fokoué College of Science

Rochester Institute of Technology

Esa Rantanen Department of Psychology Rochester Institute of Technology

Jacob Hunt Department of Biology Rochester Institute of Technology 9:55-10:15

INFERRING THE RATE AND DISTRIBUTION OF COMPACT BINARY MERGERS OBSERVED THROUGH GRAVITATIONAL WAVE DETECTORS USING MARKOV CHAIN MONTE CARLO § Daniel Wysocki and Richard O'Shaughnessy College of Science

Rochester Institute of Technology

SESSION 1E

▶ SH 1013 B

Applications of Statistics in Epidemiology Session Chair: Mark Heiler, PayChex

9:30-9:50 PREDICTING CHOLERA-POSITIVE CASES IN HAITI § Jessica Young College of Science Rochester Institute of Technology

9:55-10:15 USING BAYESIAN MULTILEVEL MODELS TO QUANTIFY VARIATION IN SUBOPTIMAL LYMPH NODE EXAMINATION AFTER COLECTOMY § Adan Becerra Department of Public Health Sciences University of Rochester

SESSION 1F

▶ SH 1008

Session Chair: Maria Caterina Bramati, Cornell University

9:30-9:50 APPLYING MULTI-RESOLUTION STOCHASTIC MODELING TO INDIVIDUAL TENNIS POINTS § Calvin Floyd College of Science Rochester Institute of Technology

SESSION 2A

▶ SH 1013 B

Model-Based Clustering with Longitudinal Data Applications Session Organizer/Chair: Amy LaLonde, Department of Biostatistics and Computational Biology, University of Rochester Medical Center

10:25-10:45 CLUSTERING DEVIATIONS IN TRAJECTORIES TO UNDERSTAND FACTORS IMPACTING YOUNG FEMALES' PHYSICAL ACTIVITY LEVELS §

Amy LaLonde, Tanzy Love, and Tongtong Wu Department of Biostatistics and Computational Biology, University of Rochester Medical Center

10:50-11:10 NONLINEAR MIXED-EFFECTS MIXTURE REGRESSION

MODELS FOR CLUSTERING LONGITUDINAL DATA § Chongshu Chen Department of Biostatistics and Computational Biology, University of Rochester Medical Center

SESSION 2B

→ SH 1008

Winning with Statistics in Sports

Session Organizer/Chair: Samuel Ventura, Department of Statistics, Carnegie Mellon University

10:25-10:40 A STATISTICAL ANALYSIS OF THE NFL DRAFT: VALUING DRAFT PICKS AND PREDICTING FUTURE PLAYER SUCCESS § Nick Citrone and Samuel Ventura Department of Statistics Carnegie Mellon University

10:40-10:55 NFLSCRAPR: AN R PACKAGE FOR EASY ACCESS TO NFL DATA AND NEW MODEL FOR EXPECTED POINTS AND WIN PROBABILITY § Ronald Yurko, Max Horowitz, and Samuel Ventura Department of Statistics Carnegie Mellon University

10:55-11:10 THE DATA COLLECTION PROCESS AND PLAY SELECTION IN DIVISION I COLLEGE FOOTBALL § Taylor Pellerin and Michael Schuckers Department of Mathematics, St. Lawrence University

SESSION 2C

▶ SH 1028

Explorations of Echo State Networks

Session Organizer/Chair: Xupin Zhang Warner School of Education, University of Rochester

10:25-10:45 DESIGN EXPLORATION ON ECHO STATE NETWORKS §

Seyed Langroudi Department of Computer Engineering Rochester Institute of Technology

10:50-11:10 STATISTICS BEHIND ECHO STATE NETWORKS § Qiuyi Wu College of Science Rochester Institute of Technology

SESSION 2D

▶ SH 1013 A

Statistics and Technology Session Chair: Mihail Barbosu, Rochester Institute of Technology

10:25-10:45 DETERMINING UNREPORTED CRIME RATE IN ROCHESTER FROM EMERGENCY CALL DATA § Justin Comparetta College of Science Rochester Institute of Technology

10:50-11:10 DIFFERENTIAL ASPECTS AND PERFORMANCE ANALYSIS OF TIME DIFFERENCE OF ARRIVAL (TDOA) TECHNIQUE OF SOUND LOCALIZATION AND MODERN AUDIO RECOGNITION TECHNIQUES OF AN ASSISTIVE WEARABLE DEVICE FOR THE DEAF OR HARD OF HEARING POPULATION § Hrishikesh Karale and Gary Behm College of Science Rochester Institute of Technology

> Subrina Farah Department of Family Medicine University of Rochester

SESSION 2E

▶ SH 1004

Detecting Hidden Structure in Data: Anomaly Detection and Cadre Learning Session Organizer/Chair: Andrés Vargas, Department of Mathematical Sciences, Rensselaer Polytechnic Institute

10:25-10:45 ANOMALY DETECTION IN CHIP MANUFACTURING §

Andrés Vargas Department of Mathematical Sciences Rensselaer Polytechnic Institute

Ridwan Al Iqbal Department of Computer Science Rensselaer Polytechnic Institute

10:50-11:10 SUPERVISED LEARNING OF PREDICTIVE CADRES §

Alexander New Department of Mathematical Sciences Rensselaer Polytechnic Institute

SESSION 2F

▶ SH 1053

Issues in and Tools for Statistics Education Session Chair: Adina Oprisan, Canisius College

10:25-10:45 MET, SET, AND SO NEXT? Yusuf Bilgic Department of Mathematics SUNY Geneseo

10:50-11:10 BIOMARKERCHALLENGE: AN INTERACTIVE R PACKAGE AND SHINY APP TO TEACH COMMON STATISTICAL TECHNIQUES USED IN EVALUATING GENETIC BIOMARKERS § Luther Vucic and Daniel Gaile Department of Biostatistics SUNY at Buffalo

SESSION 3A

▶ SH 1004

Time-Course Models with Complex Variance Structure in High-Dimensional Data Analysis Session Organizer/Chair: Yun Zhang Department of Biostatistics and Computational Biology University of Rochester Medical Center

11:20-11:35 ON THE EQUIVALENCE OF REGULARIZED HIGH-DIMENSIONAL REGRESSION IN TIME-COURSE DATA ANALYSIS §

Yun Zhang and Xing Qiu Department of Biostatistics and Computational Biology University of Rochester Medical Center

Juilee Thakar Department of Microbiology and Immunology University of Rochester Medical Center

11:35-11:50 AN EFFICIENT MONTE CARLO SAMPLING METHOD FOR SPHERICAL POLYGONS WITH APPLICATIONS TO WIRELESS COMMUNICATION STUDIES §

Jiatong Sui and Xing Qiu Department of Biostatistics and Computational Biology University of Rochester Medical Center

Hongjun Li College of Science Beijing Forestry University 11:50-12:05

A NOVEL NETWORK RECONSTRUCTION METHOD BASED ON A HIGH-DIMENSIONAL LINEAR STATE SPACE MODEL WITH APPLICATIONS TO TIME-SERIES MICROBIOME DATA §

Yu Gu and Xing Qiu Department of Biostatistics and Computational Biology University of Rochester Medical Center

Yogeshwar Kelkar Department of Biology University of Rochester

Hulin Wu Department of Biostatistics University of Texas Health Science Center at Houston

SESSION 3B

▶ SH 1053

Improving Educational Effectiveness through Data Session Organizer/Chair: Xiaoyu Wan Warner School of Education, University of Rochester

11:20-11:40 AN ANALYSIS OF CERTIFICATION RATE IN EDX MASSIVE OPEN ONLINE COURSES (MOOC) § Xiaoyu Wan Warner School of Education University of Rochester

11:45-12:05 FINDING MORE SILENT MOTIVATIONAL RESOURCES FOR DEPRESSION SYMPTOMS AND ACADEMIC OUTCOMES AMONG ADOLESCENTS § Jungming Lee Warner School of Education University of Rochester

SESSION 3C

> SH 1028

Applications of Multiple Imputation Session Chair: Leonid Khinkis, Canisius College

11:20-11:40 STATISTICAL METHODS TO HANDLE NON-DETECTS IN QPCR §

> Valeriia Sherina Department of Biostatistics and Computational Biology University of Rochester Medical Center

11:45-12:05 MULTIPLE IMPUTATION VS. SINGLE IMPUTATION FOR MISSING DATA IN SCORING HEALTH MEASURES Subrina Farah, Kevin Fiscella, and Mechelle Sanders Department of Family Medicine

Department of Family Medicine University of Rochester Medical Center

§ Indicates presentations that are eligible for the student presentation awards

SESSION 3D

▶ SH 1013 A

The Bradley-Terry Model for Paired Comparisons Session Chair: Tanzy Love, University of Rochester Medical Center

11:20-11:40 PRIOR DISTRIBUTIONS FOR THE BRADLEY-TERRY MODEL OF PAIRED COMPARISONS John Whelan College of Science Rochester Institute of Technology

11:45-12:05 MAJOR LEAGUE BASEBALL AND THE BRADLEY-TERRY MODEL: A BAYESIAN PERSPECTIVE § Gabriel Phelan and John Whelan College of Science Rochester Institute of Technology

SESSION 3E

▶ SH 1013 B

Design of Experiments Session Organizer/Chair: Darsh Thakkar College of Science, Rochester Institute of Technology

11:20-11:35 V50 EXPERIMENTAL TESTING OF PERSONAL PROTECTIVE EQUIPMENT § Darsh Thakkar College of Science Rochester Institute of Technology

11:35-11:50 DETERMINING AN ECONOMIC AND EFFECTIVE EXPERIMENTAL DESIGN BASED ON AVERAGE VARIANCE OF PREDICTION VALUE § Rupansh Goantiya College of Science Rochester Institute of Technology

11:50-12:05 EVALUATING DIFFERENT EXPERIMENTAL DESIGNS WHEN USING ROBUST REGRESSION §

Pranay Kumar College of Science Rochester Institute of Technology

SESSION 3F

▶ SH 1008

Environment and Health Session Organizer/Chair: Qiuyi Wu College of Science, Rochester Institute of Technology

11:20-11:40 PATTERNS IN PUBLIC DRINKING WATER CONTAMINATION IN SEVERAL US STATES SINCE 2000 § Xupin Zhang Warner School of Education University of Rochester

11:45-12:05 USING MACHINE LEARNING FOR PREDICTING OBESITY § Zhen Tan Department of Biochemistry and Biophysics University of Rochester Medical Center

SESSION 4

▶ SH COM

Keynote Lecture Session Chair: Leonid Khinkis, Canisius College

1:25-2:35 LESSONS FROM THE \$1,000,000 NETFLIX PRIZE Robert Bell Research and Machine Intelligence

Research and Machine Intelligence Google

SESSION 5A

► SH 1004

Applications of Statistics in Environmental Studies Session Chair: K. Tyler Wilcox, Rochester Institute of Technology

2:50-3:10 ICE WEDGE THERMAL VARIATION IN EAST ANTARCTICA: A TIME SERIES APPROACH

Maria Caterina Bramati Department of Statistical Sciences Cornell University, and Department of Methods and Models for Economics, Territory, and Finance Sapienza University of Rome

Rossana Raffi and Alessio Baldassarre Department of Earth Sciences Sapienza University of Rome

3:15-3:35 A MA

A MARKOV CHAIN METHOD TO EXAMINE THE PATTERN AND DISTRIBUTION OF RAINFALL § Maruf Raheem Department of Engineering and Mathematics Sheffield Hallam University

SESSION 5B

▶ SH 1028

Curriculum Development for Data Science Education

Session Chair: Jessica Young, Rochester Institute of Technology

- 2:50-3:10 TEACHING INTRODUCTORY STATISTICS IN AN ERA OF BIG DATA Bernadette Lanciaux College of Science Rochester Institute of Technology
- 3:15-3:35 WHAT WOULD A DATA SCIENCE GENERAL EDUCATION COURSE CONTAIN? Kirk Anne Computing and Information Technology SUNY Geneseo

SESSION 5C

→ SH 1013 A

3:15-3:35

New Methods in Multivariate and Nonlinear Regression Session Chair: Garrett Matthew, Corning, Inc.

2:50-3:10 H-CANONICAL REGRESSION Joseph Voelkel and Wei Qian College of Science Rochester Institute of Technology

> METHODOLOGICAL CHALLENGES IN NONLINEAR REGRESSION Leonid Khinkis, Adina Oprisan, and Milburn Crotzer Department of Mathematics and Statistics Canisius College

SESSION 5D

▶ SH 1013 B

New Methods in Bioinformatics Session Chair: Adan Becerra, University of Rochester Medical Center

2:50-3:10 TWO COMPLEMENTARY METHODS FOR RELATIVE QUANTIFICATION OF LIGAND BINDING SITE BURIAL DEPTH IN PROTEINS: THE 'CUTTING PLANE' AND 'TANGENT SPHERE' METHODS Vicente Reyes Ronin Institute

3:15-3:35 A VISUAL-COMPUTATIONAL METHOD FOR ATOMISTIC FUNCTIONAL AND EVOLUTIONARY COMPARISON OF BIOLOGICAL MOLECULAR DYNAMICS Gregory Babbitt College of Science Rochester Institute of Technology

Jamie Mortensen, Erin Coppola, and Justin Liao Department of Biomedical Engineering Rochester Institute of Technology

SESSION 5E

▶ SH 1053

Analysis of Internet Measurements / Theory of Influence Session Chair: Matthew Williams, Monroe Community College

- 2:50-3:10 QUASI-PARAMETRIC DEPENDENCE BETWEEN NEW INTERNET MEASUREMENT AND GLOBALIZATION Bruce Sun Department of Mathematics SUNY Buffalo State
- 3:15-3:35 INTRODUCTION TO THE THEORY OF INFLUENCE Mihail Barbosu College of Science Rochester Institute of Technology

SESSION 6

► SH COM

Awards and Recognitions + Ceremony and wrap-up

3:45-3:55		CONCLUDING REMARKS AND ACKNOWLEDGEMENTS
3:55-4:10		AWARDS AND RECOGNITIONS CEREMONY
4:10-4:15	►	ANNOUNCEMENTS ON UP-STAT 2018

Notes: There will be raffles and other fun activities during the intermissions. Check out conference announcements on the website

The General Chair wishes to wholeheartedly thank all the student helpers for working diligently to promote UP-STAT 2017

→ SUJEONG SEO, MS APPLIED STATISTICS, RIT

- > SHIYANG MA, PHD STATISTICS, U OF R
- **> QIUYI WU, MS APPLIED STATISTICS, RIT**
- **> XUPIN ZHANG, PHD HUMAN DEVELOPMENT, U OF R**
- **WILLIAM HAMMOND, BS COMPUTER SCIENCE, RIT**
- **> ADAN BECERRA, PHD STATISTICS/EPIDEMIOLOGY, U OF R**
- **> MATTHEW CORSETTI, PHD STATISTICS, U OF R**

The General Chair also wishes to extend special thanks to our precious and competent judges for volunteering to assess/score/grade the presentations of our students, so that the most deserving are properly and duly honored and recognized.

- **> DR JOSEPH VOELKEL, RIT**
- **> DR TANZY LOVE, U OF R**
- **> DR SAMUEL VENTURA, CARNEGIE MELLON UNIVERSITY**
- **> DR MARIA CATERINA BRAMATI, CORNELL UNIVERSITY**
- **> DR LEONID KHINKIS, CANISIUS COLLEGE**
- **> DR ADINA OPRISAN, CANISIUS COLLEGE**
- → DR KIRK ANNE, SUNY GENESEO
- **> DR MIHAIL BARBOSU, RIT**
- ▶ DR NILAY SAPIO, RIT
- > DR MILBURN (MEL) CROTZER, CANISIUS COLLEGE
- → DR YUSUF BILGIC, SUNY GENESEO
- **> DR JOHN HANDLEY, CONDUENT/XEROX**
- **DR JOHN WHELAN, RIT**
- → DR BERNIE LANCIAUX, RIT
- **> DR DAVID SHEETS, RIT**
- **> DR MARVIN GRUBER, RITDR GREG BABBITT, RIT**
- **> MR GARRETT BOCHICCHIO, CORNING INC**
- → MR MATTHEW WILLIAMS, MCC AND RIT
- **MR MARK HEILER, PAYCHEX**



SEE YOU AT UP-STAT 2018!

24