

DAVID S BURTON

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Saunders Research Building, 265 Crittenden Blvd. Box 630, Rochester, NY, 14642

EDUCATION

UNIVERSITY OF ROCHESTER SMD , Rochester, NY	Present
PhD Student in Dept. of Biostatistics and Computational Biology	
UNIVERSITY OF ROCHESTER SMD , Rochester, NY	2018
MA in Statistics	
EAST TENNESSEE STATE UNIVERSITY , Johnson City, TN	2016
BS in Mathematics, Statistics Concentration	
BA in Economics	
Member of Kappa Mu Epsilon Mathematics Honor Society	

HONORS AND AWARDS

• BioC 2019 Travel Scholarship Award	2019
• UpStat 2019 Best Student Methodology and Theory Presentation, Honorable Mention	2019
• UpStat 2018 Data Analytics Competition Gold Medal	2018
• NSF S-STEM Scholar	2016
• ETSU Gordon Ludolf Economics Scholar	2015

RESEARCH AND SCHOLARLY ACTIVITIES

• NIH T32 Environmental Health Trainee	Present
• Member, McCall Statistical Genomics Lab	Present
• Team Captain, UpStat 2018 Data Analytics Competition Winning Team	2018
• SAMSI: Undergraduate Workshop, Astrostatistics	2016
• UConn Health REU: Modeling and Simulation in Systems Biology	2016

PUBLICATIONS

1. Sanchez F, Barboza L, **Burton DS**, Cintron-Arias A (2018). Comparative analysis of dengue versus chikungunya outbreaks in Costa Rica. *Ricerche di Matematica*. 67(1): 163-174.

TALKS

1. JSM 2019, Denver, CO. *Likelihood based mixture modeling of genetic regulatory networks*. 2019.
2. UpStat 2019, Rochester, NY. *Likelihood based mixture modeling of genetic regulatory networks*. 2019.
3. University of Rochester School of Medicine and Dentistry Visit Weekend, Rochester, NY *Likelihood based mixture modeling of genetic regulatory networks*. 2019.
4. University of Rochester Biostatistics Dept. Seminar Series, Rochester, NY. *It's Nice to have Options: Reviewing Genetic Regulatory Network Inference Methods*. 2019
5. UpStat 2018, Rochester, NY. *A brief history of crime in Rochester, NY*. 2018.

6. SoCon Undergraduate Research Forum, Spartanburg, SC. *Functional Data Analysis of Copy Number Alterations in Bladder Cancer Tumor Chromosomes*. 2016.
7. Boland Undergraduate Research Forum, Johnson City, TN. *Effect of the Affordable Care Act on Uncompensated Care in Hospitals*. 2016.

POSTERS

1. JSM 2019, Denver, CO. *Likelihood Based Mixture Modeling of Genetic Regulatory Networks*. 2019.
2. BioC North America 2019, New York City, NY. *Likelihood Based Mixture Modeling in Gene Regulatory Network Inference*. 2019.
3. UNYTE Translational Genomics and Proteomics Un-Meeting. *Incorporating uncertainty in a ternary gene regulatory network model*. 2019.
4. Wilmot Cancer Institute (WCI) Scientific Symposium 2018, Rochester, NY. *Incorporating uncertainty in a ternary gene regulatory network model*. 2018.
5. BioC 2018, Toronto, Ontario, Canada. *Incorporating uncertainty in a ternary gene regulatory network model*. 2018.
6. URM C Graduate Student Society Poster Session, Rochester, NY. *Incorporating uncertainty in a ternary gene regulatory network model*. 2018.
7. JMM Undergraduate Poster Session, Atlanta, GA. *Functional Data Analysis of Copy Number Alterations in Bladder Cancer Tumor Chromosomes*. 2017.
8. UConn Health Summer Poster Session, Farmington, CT. *Functional Data Analysis of Copy Number Alterations in Bladder Cancer Tumor Chromosomes*. 2016.

R/BIOCONDUCTOR PACKAGES

ternarynet Computational Bayesian approach to ternary network estimation

EXPERIENCE

URMC SMD Post-baccalaureate Research Education Program <i>Guest Lecturer, Basic Statistical Tests and Assumption Verification in R</i>	Summer 2019 Rochester, NY
UR Dept. of Biostatistics <i>Teaching Assistant, Applied Linear Regression</i>	Fall 2018 Rochester, NY
UR STEM For All <i>Teaching Assistant, summer research program in statistical machine learning</i>	June 2018 Rochester, NY
UR Dept. of Biostatistics <i>Teaching Assistant, Applied Linear Regression</i>	Fall 2017 Rochester, NY
ETSU Dept. of Mathematics and Statistics <i>Teaching Assistant, Partial Differential Equations and Intro to Statistics</i>	Spring 2017 Johnson City, TN
ETSU NSF-SSTEM <i>Teaching Assistant, Preparation of Data Driven Mathematical Scientists</i>	Fall 2016 Johnson City, TN
UConn Health REU <i>Research Assistant</i>	Summer 2016 Farmington, CT