



John Palowitch

Curriculum Vitae

Education

- 2012–Present **Ph.D. Statistics**, *UNC Chapel Hill*, Chapel Hill, NC.
- Degree expected May 2017
 - Advisor: Andrew B. Nobel
- 2008–2012 **B.A. Mathematics and Music**, *University of Miami*, Coral Gables, FL.
- Math Advisor: Victor Pestien
 - Music Advisor: Gary Keller

Publications

- 2016 **Palowitch, John**; Bhamidi, Shankar; Nobel, Andrew B. *The Continuous Configuration Model: A Null For Community Detection on Weighted Networks*. arXiv:1601.05630v2

In Preparation

- 2015 **Palowitch, John**; Zhou, Yihui; Shabalin, Andrey; Wright, Fred A.; Nobel, Andrew B. *Robust Effect-Size Estimation for eQTL Analysis*.
- 2013 Jiang, Melei; **Palowitch, John**; Yu, Qunqun; Marron, J. S.; Haaland, Perry D. *A Novel Method for Identifying Community Subtypes in the Sparse Microbiome of the Infected Lower Lung*.

Presentations

- Oct 2015 "The Continuous Configuration Model"
- Triangle Area Graduate Mathematics Conference
- Aug 2015 "Extracting Overlapping Communities from Weighted Networks"
- Joint Statistical Meetings (JSM) Contributed Sessions, Seattle WA
- June 2015 "Robust Effect Size Estimation for eQTL Analysis"
- GTEx Analysis Working Group Meeting, Chicago IL

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- Dec 2014 "Multi-Tissue eQTL Detection"
○ GTEx Analysis Working Group Meeting, Washington D.C.

Awards

- 2015 Section for Statistical Programmers and Analysts (SSPA)/Monsanto Student Award

Selected Coursework

- 2015-2016 Bayesian Statistics (BIOS779, Amy Herring)
2014-2015 Estimation and Hypothesis Testing (STOR755, Andrew B. Nobel)
Statistical Machine Learning and Data Mining (STOR891, Yufeng Liu)
Object-Oriented Data Analysis (STOR892, James S. Marron)
2013-2014 Stochastic Modeling (STOR691, Serhan Ziya)
Functional Data Analysis (STOR892, Haipeng Shen)
Multivariate Analysis (STOR890, Pranab Sen)
Concentration Inequalities (STOR890, Shankar Bhamidi)
Bioinformatics and Databases (BCB712, Bradley Hemminger)

Teaching and Research Experience

- 2016–Present **Graduate Instructor**, UNC STATISTICS AND OPERATIONS RESEARCH.
○ **Instructor of STOR155 Introduction to Statistics.** Prepared and presented lectures; created and held exams. Topics included probability laws, inference methods, software use, and sampling ethics. Classes and office hours held three times per week.
- 2013–2015 **Graduate Research Assistant**, UNC STATISTICS AND OPERATIONS RESEARCH.
○ **Member of the Genotype Tissue Expression (GTEx) Consortium.** Developed models for genome linkage detection and effect-size estimation. Collaborated long-distance with tenured and associate researchers in the consortium. Presented results at regular consortium conferences and telephone meetings. Advisors: Andrew B. Nobel, Fred. A. Wright; collaborator: Andrey Shabalin.
○ **Field research in network models and community detection.** Developed and investigated new models for data-mining in networks. Constructed and tested code for new algorithms, simulations, and real data analyses. Compiled journal-ready article presenting relevant contributions and results. Advisors: Andrew B. Nobel, Shankar Bhamidi.
- 2013–2014 **Data Science Intern**, BECTON DICKINSON, Morrisville, NC.
○ **Collaborative statistics and data science researcher.** Worked on-site two days per week with BD data science team. Developed new methods for classifying microbiome profiles of hospital-contracted illness. Supervisor: Perry Haaland.