Luella Fu

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EDUCATION

University of Southern California, Los Angeles, California, USA

- Doctor of Philosophy (Ph.D.) in Business Administration   Aug 2012 – Present
- Emphasis on Statistics
- Expected Graduation in May 2018
- Marshall Graduate Assistantship, Marshall 5th Year Fellowship

Yale University, New Haven, Connecticut, USA

- Master of Arts (M.A.) in Statistics   Aug 2011 – May 2012
- Teaching Fellow

Claremont McKenna College, Claremont, California, USA

- Bachelor of Arts (B.A.) in Literature and Mathematics (Dual)   Aug 2008 – May 2011
- Brian and Marilyn Gerich Scholarship

PAPERS

STATISTICAL METHODOLOGY

[1] Fu, L., James, G., and Sun, W. (2017+) "The Mountain Comes to Muhammad: The Dangers of Using Standardized Statistics in Multiple Testing". *Ongoing*.

[2] Fu, L., James, G., and Sun, W. (2017+) "Top-percent selection in large-scale inference with heteroscedastic errors". *Ongoing*.

[3] Basu, P., Fu, L., and Sun, W. (2017+) "Empirical Bayes FDX control". *Ongoing*.

[4] Fu, L., James, G., and Sun, W. (2017) "Nonparametric empirical Bayes Tweedie's estimator for normal means with heteroscedastic errors". *Submitted to J. R. Stat. Soc. Series B Stat Methodol*.

[5] Fu, L. and Fan, Y. (2014) "Stable Adaptive Model Selection". *Manuscript*.

STATISTICAL APPLICATIONS

[1] Fu, S., Fu, L., Towe, C. W., Perry, Y., Delaney, C. P. and Linden, W. (2017+) "Increased hospital costs associated with postesophagectomy complications, primarily anastomotic leak and reintubation". *Revising with additional data*.

[2] Fu, L., Jacobs, M. A., Brookover, J., Valente, T. W., Cobb, N. W., and Graham, A. L. (2017) "An exploration of the Facebook social networks of smokers and non-smokers". *Minor revision, PLOS ONE*.

[3] Li, C., Zhang, J., and Fu, L. (2012) "Bayesian Model Selection Approach to Drug Resistance". *Manuscript*.

CONFERENCES

[1] Fu, L., James, G., and Sun, W., "How to Adapt Tweedie's Formula for Heteroscedastic Data". Presented in the Young Investigators Section 2 of the *XXVIIth International Biometric Conference*, Victoria, British Columbia, Canada. Jul 2016.

TEACHING EXPERIENCE

Guest Lecturer for BUAD310: Applied Business Statistics

- University of Southern California   Nov 2016
  - Filled in twice, for two separate professors, once each.
  - Covered F tests in one class and went over example problems and solutions in both.

Lecturer for BUAD310: Applied Business Statistics

- University of Southern California — May 2016 – Aug 2016
  - Designed and taught introductory statistics course for undergraduates with both lecture component covering statistical concepts and lab component for Excel.
  - Class met twice weekly for 2.5 hours each. First half comprised warm-up review, lecture and discussion while second half comprised group work.
  - Teacher preparation included choosing a textbook, planning class material, creating homework assignments, making worksheets, rehearsing lecture, preparing class activities, and providing flexible office hours with extra office hours before exams.

Guest Lecturer for BUAD310: Applied Business Statistics

- University of Southern California — Apr 2015
  - Filled in for a professor and went over practice exam questions and answers.

Teaching Assistant for BUAD310: Applied Business Statistics

- University of Southern California — Jan 2015 – May 2015
  - Held 4 hours of office hours a week to help students with statistics materials and homework.
  - Efforts also included holding additional office hours before exams and providing extra resources by compiled quiz questions from lecture slides and co-hosting Jeopardy review game with a professor.

Course Assistant for GSBA 524: Applied Managerial Statistics (Part 2)

- University of Southern California — Aug 2014 – Oct 2014
  - Held 1 hour of office hours twice a week online to discuss course material with remote MBA students.

Course Assistant for MBA Statistics Fundamental Course

- University of Southern California — Jun 2014 – Aug 2014
  - Held 2 hours of office hours twice a week to discuss problem sets with MBA students
  - Held additional hours for exam review, 1 hour four times a week.

Course Assistant for GSBA 524: Applied Managerial Statistics (Part 1)

- University of Southern California — Jun 2014 – Jul 2014
  - Held 2 hours of office hours twice a week to discuss problem sets with masters students.

Grader for STAT230/530: Introductory Data Analysis

- Yale University — Jan 2012 – May 2012
  - Graded weekly data analysis papers for undergraduate and graduate students.

Course Assistant for STAT 101–106: Introduction to Statistics

- Yale University — Sep 2011 – Dec 2011
  - Assisted professor by readying lecture material.

Mathematics Department Tutor

- Claremont McKenna College — Sep 2010 – May 2011
  - Conducted weekly sessions to help students with calculus, linear algebra, differential equations, introductory computer science, probability, and statistics.

Teaching Assistant for ECON 120: Statistics

- Claremont McKenna College — Sep 2010 – Dec 2010
  - Held 2-3 hours of weekly office hours to guide students through homework sets.

VOLUNTEERING

USC's Joint Education Program Teaching Assistant

- Martin Luther King Jr. Elementary School — Sep 2016 – Apr 2017
  - First term: helped groups of 1-6 third grade students in math and reading.
  - Second term: Led groups of 2-3 second and third grade special education students in reading, writing, and logic activities.
- St. Raphael School — Sep 2015 – Nov 2015
  - Primarily worked with groups of 4–6 sixth and eighth grade students who were reading below grade-level on critical reading. Also administered reading tests.

AWARDS & SCHOLARSHIPS

- WNAR Student Travel Award, WNAR — 2016
  For submission of student paper to IBC2106.

PROFESSIONAL AFFILIATIONS

American Statistical Association   2012 – Present
- Additional sections: Section for Statistical Programmers and Analysts, Social Statistics, Southern California American Statistical Association, Statistical Learning and Data Science, and Statistics in Marketing

Institute of Mathematical Statistics   2015 – Present

International Biometric Society   2015 – Present
- Additional sections: Western North American Region

PROFESSIONAL EXPERIENCE

Modeling and Forecasting Analyst, Facebook   Jun 2012 – Aug 2012
- Queried advertising and demographic data from Facebook's massive database; employed statistical models to characterize communities of users for business operations.

Financial Analyst, Applied Materials   May 2010 – Aug 2010
- Reported financial accounts on company's monthly and yearly financial performance compared to previous periods and compared to competitors.

SKILLS

R, LaTeX, MySql, Postgresql, RegEx, Python, Excel, HTML, CSS, Git, C++, NodeJS, Javascript, Mathematica, Matlab