Samuel Tracy

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Ph.D. student in Biostatistics at Harvard University focusing on methods for failure time data and single-cell sequencing data. In particular: developing and adapting sampling techniques, optimization theory, adjustments for missingness, clustering methods, and dimensionality reduction. My advisor is Dr. Guo-Cheng Yuan. I am also an advocate for open-source development, reproducible research and diversity in STEM.

EDUCATION

Ph.D. Biostatistics	Harvard University	2019[1]
M.A. Biostatistics	Harvard University	2016
B.S. Applied Mathematics, *magna cum laude*	UC San Diego	2014

PROFESSIONAL EXPERIENCE

Research Consultant   09/2017 – present
Harvard University, Boston, MA
Department of Biostatistics Consulting Center

Student Intern   03/2013 – 06/2013
Clinical and Translational Research Institute, San Diego, CA
Clinical data visualization and analysis under Dr. Ronghui Xu and James Proudfoot

TEACHING EXPERIENCE

Teaching Assistant   01/2016 – present
T.H. Chan Harvard School of Public Health, Boston, MA
BST 210 Applied Regression Analysis (Spring 2016, 2017)
BST 226 Applied Longitudinal Analysis (Spring 2018)

Instructor and Administrator   01/2015 – 08/2017
StatStart, Boston, MA
Student-run high school program in statistical computing for minorities in STEM
(Summer 2015, 2016, 2017)

Teaching Assistant   09/2013 – 06/2014
UC San Diego, San Diego, CA
MATH 10ABC Calculus Series (Fall 2013, Winter 2014, Spring 2014)

Academic Liaison   01/2013 – 03/2013
Fallbrook High School, Fallbrook, CA
All-subjects tutor and liaison through the UC San Diego Educational Studies Department

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[1]anticipated

PROJECTS

Chen, T., Tracy, S., Uno, H. Minimal-area confidence bands for failure time data.

Tracy, S., Dries, R., Yuan, G.C. scRNA-seq dropout imputation via subsampling of genes.

Tracy, S., Yuan, G.C. Scoring lineage prediction with single-cell data.

PUBLICATIONS

Talbot, O., Ocampo, A., Tracy, S., Mosesso, K., Rahman, A., and Pagano, M. StatStart 2015. *ASA: The Statistics Teacher Network*, 87: 4-8, 2016.

SKILLS & INTERESTS

Software   –   R, MATLAB, Stata, Java, C++, Python
Interests   –   tumor evolution and heterogeneity, systems architecture, cyber security

SOFTWARE

Co-creator and maintainer of the R package `optband` (on CRAN and GitHub), a package for statistical confidence bands applied to failure time data and optimized by area.

SELECTED INVOLVEMENT

Graduate Student Council, *Department Representative*   09/2015 – 08/2017
Roxbury Prep Tutoring, *Co-director*   09/2016 – 05/2017
Roxbury Prep Tutoring, *Coordinator*   09/2015 – 05/2016
Student Conduct Code Committee, *Student Representative*   01/2014 – 06/2014
Global Water Brigades, *Honduras Brigade Member*   01/2014 – 03/2014

REFERENCES

Yuan, Guo-Cheng
Associate Professor, Department of Biostatistics, Harvard T.H. Chan School of Public Health
Address: 360 Longwood Ave, Room 1060, Boston, MA 02215
Tel: 617-582-8532 Email: gcyuan@jimmy.harvard.edu

Xu, Ronghui
Professor, Department of Mathematics, University of California, San Diego
Address: 9500 Gilman Drive #0112, La Jolla, CA 92093
Tel: 858-534-6380 Email: rxu@ucsd.edu

[1]anticipated