Cole Campton

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Work Experience

Spring 2021 – Fall 2017 | Duke Computer Science Department
Graduate Research Assistant
Duke University graduate research assistant in Computer Science focused in numerical analysis, optimization and machine learning under Dr. Xiaobai Sun.

Summer 2020 | Research Triangle Institute, Durham, NC
Data Analyst Intern
Data analysis with SAS and R to analyze measures of inequality with respect to Early Grade Reading Assessments. Coauthored a paper focusing on six developing countries which explores the numeric decomposition of learning inequality across geographic, demographic and socioeconomic factors.

Summer 2019 | Teledyne Scientific and Imaging, Durham, NC
Technical Intern
Development role implementing artificial intelligence projects related to the firms primary goal of advancing and proliferating technologies from DARPA funded research and development programs. Individual work with Python, PyTorch, OpenCV within a team of 10.

Winter 2017 – Summer 2016 | Apex Clearing, Portland, OR
Data Science Intern
Designed and built machine learning systems using Tensorflow and SciKit-Learn Python libraries designed to reduce company costs by predicting financial transaction failures. Self directed individual project.

Education

Conferred 2019 | Master of Science, Computer Science
Duke University, Durham, NC
Advisor: Prof. Xiaobai Sun

Conferred 2017 | Bachelor of Arts, Mathematics
Reed College, Portland, OR
Thesis: Homological Equivalence of Discrete Configuration Space Models
Advisor: Prof. Safia Chettih

Publications

D. Rodriguez-Segura, C. Campton, L. Crouch, et al., "Learning inequalities in developing countries: Evidence from early literacy levels and changes," International Journal of Educational Development, vol. 79, pp. 1–40, (In Submission)

D. Rodriguez-Segura, C. Campton, L. Crouch, et al., "Measuring learning inequality in low-learning situations: Metrics and interpretation," in Conference of the Comparative and International Education Society (CIES), (Accepted)

C. Campton and X. Sun, "Auxiliary maximum likelihood estimation for noisy point cloud registration," in 2019 IEEE High Performance Extreme Computing Conference (HPEC), Sep. 2019, pp. 1–7

Computer Skills

Programming:	Python, Java, Ruby, Git, LaTeX, MATLAB, Mathematica, Haskell, Linux,html, Css
Database & Data Analysis:	R, SAS, JMP, SQL, MongoDB
Miscellaneous and Packages:	PyTorch, NumPy, PANDAS, SciKit-Learn, OpenCV, Tensorflow