PhD Student Updated: September 26, 2020 Department of Cognitive Science Email: sean@seankross.com University of California, San Diego (UCSD) www.seankross.com RESEARCH INTERESTS Human-computer interaction, data science, online learning, cybersecurity ACADEMIC POSITIONS 01/2018 -The Johns Hopkins Bloomberg School of Public Health, Baltimore, MD Associate Faculty of Biostatistics 01/2017 - 05/2017The University of Pennsylvania School of Design, Philadelphia, PA Adjunct Faculty of Design **EDUCATION** 09/2017 -The University of California, San Diego, La Jolla, CA Ph.D. in Cognitive Science Advisor: Philip Guo 09/2017 - 03/2020The University of California, San Diego, La Jolla, CA M.S. in Cognitive Science Advisor: Philip Guo 06/2012 - 05/2015The University of Maryland, College Park, College Park, MD Bachelor of Science in Computer Science 09/2008 - 05/2012 New York University, New York, NY Bachelor of Arts in Biology AWARDS AND HONORS 08/2020 USENIX Security Distinguished Paper Award [C.10] CHI Honorable Mention Paper Award [C.7] 05/201905/2012New York University President's Service Award PRIOR EMPLOYMENT 05/2020 - 08/2020Microsoft Research, New York, NY Research Intern – Computational Social Science Group The Johns Hopkins Bloomberg School of Public Health, Baltimore, MD 09/2015 - 09/2017Chief Technology Officer – Johns Hopkins Data Science Lab 01/2014 - 07/2015 University of Maryland, College Park, MD Research Assistant – Computational Biology Group – Advisor: Mihai Pop 01/2012 - 05/2012 New York University, New York, NY Research Assistant – Genomics Group – Advisor: Patrick Eichenberger

PUBLICATIONS

Conference Papers

- C.10 Elissa M. Redmiles, Noel Warford, Amritha Jayanti, Aravind Koneru, Sean Kross, Miraida Morales, Rock Stevens, Michelle L. Mazurek. A Comprehensive Quality Evaluation of Security and Privacy Advice on the Web. In Proceedings of the 2020 USENIX Security Symposium. August 2020. (Distinguished Paper Award)
 - C.9 Elissa M. Redmiles, Lisa Maszkiewicz, Emily Hwang, Dhruv Kuchhal, Everest Liu, Miraida Morales, Denis Peskov, Sudha Rao, Rock Stevens, Kristina Gligorić, Sean Kross, Michelle L. Mazurek, Hal Daumé III. Comparing and Developing Tools to Measure the Readability of Domain-Specific Texts. In Proceedings of EMNLP 2019: ACL SIGDAT Conference on Empirical Methods in Natural Language Processing, November 2019. Hong Kong, China.
 - C.8 Sean Kross and Philip J. Guo. End-User Programmers Repurposing End-User Programming Tools to Foster Diversity in Adult End-User Programming Education. In Proceedings of VL/HCC 2019: IEEE Symposium on Visual Languages and Human-Centric Computing, October 2019. Memphis, TN, USA.
 - C.7 Sean Kross and Philip J. Guo. Practitioners Teaching Data Science in Industry and Academia: Expectations, Workflows, and Challenges. In Proceedings of CHI 2019: ACM Conference on Human Factors in Computing Systems, May 2019. Glasgow, UK.
 - (Honorable Mention Paper Award)
 - C.6 Elissa M. Redmiles, Sean Kross, Michelle L. Mazurek. How Well Do My Results Generalize? Comparing Security and Privacy Survey Results from MTurk, Web, and Telephone Samples. In Proceedings of S&P 2019: *IEEE Symposium* on Security and Privacy, May 2019. San Francisco, CA, USA.
 - C.5 Elissa M. Redmiles, Ziyun Zhu, Sean Kross, Dhruv Kuchhal, Tudor Dumitras, Michelle L. Mazurek. Asking for a Friend: Evaluating Response Biases in Security User Studies. In Proceedings of CCS 2018: ACM Conference on Computer and Communications Security, October 2018. Toronto, ON, Canada.
 - C.4 Sean Kross and Philip J. Guo. Students, Systems, and Interactions: Synthesizing the First Four Years of Learning@Scale and Charting the Future. In Proceedings of L@S 2018: ACM Conference on Learning at Scale, June 2018. London, UK.
 - C.3 Elissa M. Redmiles, Sean Kross, Michelle L. Mazurek. Where is the Digital Divide? Examining the Impact of Socioeconomics on Security and Privacy Outcomes. In Proceedings of CHI 2017: ACM Conference on Human Factors in Computing Systems, May 2017. Denver, CO, USA.
 - C.2 Elissa M. Redmiles, Sean Kross, Michelle L. Mazurek. How I Learned to be Secure: a Census-Representative Survey of Security Advice Sources and Behavior. In Proceedings of CCS 2016: ACM Conference on Computer and Communications Security, October 2016. Vienna, Austria.
 - C.1 Elissa Redmiles, Mary Allison Abad, Isabella Coronado, Sean Kross, Amelia Malone. A Classroom Tested Accessible Multimedia Resource for Engaging Underrepresented Students in Computing. In Proceedings of SIGCSE 2015: ACM Conference on Computer Science Education, March 2015. Kansas City, MO, USA.

Journal Papers

- J.1 Sean Kross, Roger D. Peng, Brian S. Caffo, Ira Gooding, Jeffery T. Leek. The Democratization of Data Science Education. In *The American Statistician*, 2020.
- J.2 Lucy D'Agostino McGowan, Sean Kross, Jeffery T. Leek. Tools for Analyzing R Code the Tidy Way. In The R Journal, 2020.
- J.3 Sean Kross, Jeffery T. Leek, John Muschelli. Ari: The Automated R Instructor. In The R Journal, 2020.

Воокѕ

- B.2 Sean Kross. The Unix Workbench. Leanpub, 2017.
- B.1 Roger D. Peng, **Sean Kross**, Brooke Anderson. Mastering Software Development in R. Leanpub, 2017.

FUNDING

F.1 Facebook Research: Economic Opportunity and Digital Platforms. "Learning Online: Who Benefits, Who is Left Behind?" \$50,000. PI: Eszter Hargittai, co-PI: **Sean Kross**, co-PI: Elissa M. Redmiles. 2020.

TALKS

- The Challenges of Analytic Workflows: Perspectives from Data Science Educators. The Eastern North American Region of the International Biometric Society (ENAR), Nashville, TN, March 2020.
- The Lean Course: Open and Collaborative Online Course Development. *Joint Statistical Meetings*, Vancouver, BC, Canada, July 2018.
- Lessons from Teaching Data Science to Over a Million People. *Crunch Conference*, Budapest, Hungary, October 2017.
- Beyond Axes: Simulating Systems with Interactive Graphics. *Joint Statistical Meetings*, Baltimore, MD, August 2017.
- Re-thinking the Value Added by a Data Repository. *Dataverse Community Meeting*, Cambridge, MA, June 2017.
- Scaling Data Science Education. Seminário Internacional de Estatística, Rio de Janeiro, Brazil, May 2016.

TEACHING

Instructor

- Johns Hopkins University on Coursera.org: The Unix Workbench (Continually since Summer 2017)
- The University of Pennsylvania MUSA 850: Data Wrangling and Data Visualization (Spring 2017)

TEACHING ASSISTANT

- UCSD COGS 127: Data-Driven User Experience and Product Design (Fall 2019, 2020)
- UCSD COGS 9: Introduction to Data Science (Winter 2019)
- UCSD COGS 120/CSE 170: Human-Computer Interaction Design (Fall 2017, 2018)
- UCSD COGS 121 Human-Computer Interaction Programming Studio (Spring 2018)