Ian Drosos

PhD Student
Department of Cognitive Science
University of California, San Diego (UCSD)

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iandrosos.me

RESEARCH INTERESTS

human-computer interaction; leveraging expert live streams to create better tutorials; designing tools to support and enhance the workflows of content creators, developers, and data scientists;

EDUCATION

University of California, San Diego
Ph.D. in Cognitive Science   2017 – Cur.
Advisor: Philip Guo

North Carolina State University
M.S. in Computer Science   2015 – 2017
Thesis: *HappyFace: Identifying and Predicting Frustrating Learning Obstacles at Scale*, Advisor: Chris Parnin

Southern Polytechnic State University
B.S. in Computer Science   2007 – 2011

EXPERIENCE

UCSD – The Design Lab, La Jolla, CA
Researcher – Ph.D. Student   2017 – Cur.
HCI research in providing better experiences for content creators, learners, data scientists, and programmers.

UCSD, La Jolla, CA
Teaching Assistant   2018 – Cur.
Interaction Design (COGS120/CSE170)
- Winter 2018, 2019
- Professor: Scott Klemmer

Human-Computer Interaction Programming Studio (COGS121)
- Spring 2018, 2019
- Professor: Philip Guo

Microsoft, Redmond, WA
Research Intern – Program Synthesis   07/2018 – 12/2018
Researching, prototyping, and studying program synthesis interactions for data scientists on the PROSE team (microsoft.github.io/prose) [C.3]

Verizon, Alpharetta, GA
Member Technical Staff I & II – Systems Engineering   2011 – 2015
Full-stack software engineer developing enterprise systems using Java, PL/SQL, JavaScript, and HTML

PUBLICATIONS

C.3 **Ian Drosos**, Titus Barik, Philip Guo, Robert DeLine, and Sumit Gulwani. 2019. Wrex: A Unified Programming-By-Example Interaction for Synthesizing Readable Code for Data Scientists. In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI 2020).*

J.1 Adam Rule, **Ian Drosos**, Aurélien Tabard, and James D. Hollan. 2018. Aiding Collaborative Reuse of Computational Notebooks with Annotated Cell

Folding. In Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing. ACM, Article 150 (CSCW 2018).

C.2 René Just, Chris Parnin, **Ian Drosos**, and Michael D. Ernst. 2018. Comparing developer-provided to user-provided tests for fault localization and automated program repair. In Proceedings of the 27th ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA 2018).

C.1 **Ian Drosos**, Philip Guo, and Chris Parnin. 2017. HappyFace: Identifying and Predicting Frustrating Obstacles for Learning Programming at Scale. In Proceedings of the Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2017).

PROGRAMMING LANGUAGES

Python, JavaScript, HTML, CSS, Java, LaTeX