Ian Drosos

PhD Candidate Updated: April 1, 2022 Department of Cognitive Science ian.drosos@gmail.com

University of California, San Diego (UCSD) iandrosos.me

RESEARCH INTERESTS human-computer interaction; designing and implementing tools to support and enhance the workflows of content creators, developers, data scientists, and learners;

EDUCATION

University of California, San Diego

Ph.D. in Cognitive Science 2017 – Present

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. Candidate 2017 - Present

HCI research in providing better experiences for content creators, programmers, data scientists, and learners.

UCSD, La Jolla, CA

Instructor 2018 - 2022

HCI Portfolio Design Studio (COGS121)

• Spring 2022

• Instructor: Scott Klemmer

Teaching Assistant

Interaction Design (COGS120/CSE170)

• Winter 2018, 2019

• Instructor: Scott Klemmer

Human-Computer Interaction Programming Studio (COGS121)

• Spring 2018, 2019

• Instructor: Philip Guo

HCI Portfolio Design Studio (COGS121)

• Spring 2020, 2021

• Instructor: Philip Guo

Data-Driven UX/Product Design (COGS127)

 \bullet Winter 2022

• Instructor: Sean Kross

Autodesk, San Rafael, CA

 $Intern - User \ Interface \ Research$ 01/2021 - 04/2021

Researching, prototyping, and studying software learning with the HCI and Visualization team at Autodesk Research

Microsoft, Redmond, WA

Research Intern – Program Synthesis Researching, prototyping, and studying program synthesis interactions for data scientists on the PROSE team (microsoft.github.io/prose) [C.4] 07/2018 - 12/2018

Verizon, Alpharetta, GA

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

2011 - 2015

PUBLICATIONS

- C.7 Ian Drosos and Philip Guo. 2022. The Design Space of Livestreaming Equipment Setups: Tradeoffs, Challenges, and Opportunities. (In Submission).
- C.6 Ian Drosos and Philip Guo. 2021. Streamers Teaching Programming, Art, and Gaming: Cognitive Apprenticeship, Serendipitous Teachable Moments, and Tacit Expert Knowledge. In Proceedings of the Symposium on Visual Languages and Human-Centric Computing, short paper (VL/HCC 2021).

 Honorable Mention Paper Award
- C.5 Sam Lau, Ian Drosos, Julia Markel and Philip Guo. 2020. The Design Space of Computational Notebooks: An Analysis of 60 Systems in Academia and Industry. In Proceedings of the Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2020).
- C.4 Ian Drosos, Titus Barik, Philip Guo, Robert DeLine, and Sumit Gulwani. 2020. 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).

 Best Paper Award (Top 1%)
- C.3 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, Java, R, LATEX

SERVICE

Reviewer, UIST 2020, VL/HCC 2021, CHI 2022