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| EDUCATION                  | <b>University of California, San Diego</b> <span>Apr 2020</span><br>PhD, Computer Science<br>Advisor: Scott Klemmer<br>Committee: Mira Dontcheva, Jim Hollan, Bill Griswold, Philip Guo, Björn Hartmann  |
|                            | <b>University of California, San Diego</b> <span>Dec 2016</span><br>M.S., Computer Science<br>GPA: 3.77/4.0  |
|                            | <b>University of Toronto, Victoria College</b> <span>Jun 2013</span><br>Honours B.Sc. with High Distinction, Specialist in Math & Computer Science, Major in Music<br>GPA: 3.94/4.0                      |
| PROFESSIONAL<br>EXPERIENCE | <b>Research Engineer</b> <span>June 2020 - present</span><br>Creative Intelligence Lab, Adobe Inc.   |
|                            | <b>PhD Researcher</b> <span>Oct 2014 – Mar 2020</span><br>Design Lab, UC San Diego (Advisor: Scott Klemmer)  |
|                            | <b>Intern</b> <span>Jun – Sep 2019</span><br>Creative Intelligence Lab, Adobe Inc. (Supervisor: Mira Dontcheva)  |
|                            | <b>Intern</b> <span>Jun – Sep 2017</span><br>Creative Intelligence Lab, Adobe Inc. (Supervisor: Mira Dontcheva)  |
|                            | <b>User Interface Research Intern</b> <span>Jun – Sep 2016</span><br>Autodesk Inc. (Supervisor: Tovi Grossman)   |
|                            | <b>Intern</b> <span>Jun – Sep 2015</span><br>Creative Technologies Lab, Adobe Inc. (Supervisors: Mira Dontcheva & Holger Winnemöller)  |
|                            | <b>Research Assistant</b> <span>Sep 2013 – May 2014</span><br>DGP Lab, University of Toronto (Advisor: Kyros Kutulakos)  |
| PUBLICATIONS               | <b>C. Ailie Fraser, Julia M. Markel, N. James Basa, Mira Dontcheva, and Scott Klemmer.</b><br>2020. ReMap: Lowering the Barrier to Help-Seeking with Multimodal Search. <i>Proceedings of UIST '20</i> . |
|                            | <b>C. Ailie Fraser, Joy Kim, Valentina Shin, Joel Brandt, and Mira Dontcheva.</b> 2020. Temporal Segmentation of Creative Live Streams. <i>Proceedings of CHI '20</i> .                                  |

C. Ailie Fraser, Mira Dontcheva, Joy Kim, and Scott Klemmer. How Live Streaming Does (and Doesn't) Change Creative Practices. 2020. *interactions Jan/Feb 2020*.

C. Ailie Fraser, Joy Kim, Alison Thornsberry, Scott Klemmer, and Mira Dontcheva. 2019. Sharing the Studio: How Creative Livestreaming can Inspire, Educate, and Engage. *Proceedings of Creativity & Cognition '19*.

C. Ailie Fraser, Tricia J. Ngoon, Mira Dontcheva, and Scott Klemmer. 2019. RePlay: Contextually presenting learning videos across software applications. *Proceedings of CHI '19*. Honorable Mention.

Tricia J. Ngoon, C. Ailie Fraser, Ariel S. Weingarten, Mira Dontcheva, and Scott Klemmer. 2018. Interactive Guidance Techniques for Improving Creative Feedback. *Proceedings of CHI '18*. Honorable Mention.

C. Ailie Fraser, Tovi Grossman, and George Fitzmaurice. 2017. WeBuild: Automatically Distributing Assembly Tasks Among Collocated Workers to Improve Coordination. *Proceedings of CHI '17*.

C. Ailie Fraser, Mira Dontcheva, Holger Winnemöller, Sheryl Ehrlich, and Scott Klemmer. 2016. DiscoverySpace: Suggesting Actions in Complex Software. *Proceedings of DIS '16*.

Catherine M. Hicks, Vineet Pandey, C. Ailie Fraser, and Scott R. Klemmer. 2016. Framing Feedback: Choosing Review Environment Features that Support High Quality Peer Assessment. *Proceedings of CHI '16*.

#### EXTENDED ABSTRACTS

C. Ailie Fraser, Julia M. Markel, N. James Basa, Mira Dontcheva, and Scott Klemmer. 2019. ReMap: Multimodal Help-Seeking. *UIST '19 Adjunct*.

C. Ailie Fraser, Joy Kim, Scott Klemmer, and Mira Dontcheva. 2019. Creative livestreaming: How sharing one's process can inspire, educate, and engage. *CHI '19 Live Streaming Workshop*.

C. Ailie Fraser. 2018. The Right Content at the Right Time: Contextual Examples for Just-in-time Creative Learning. *UIST '18 Doctoral Symposium*.

C. Ailie Fraser, Mira Dontcheva, and Scott Klemmer. 2018. Software videos: Rich content and learning potential, but a challenge for sensemaking. *CHI '18 Sensemaking Workshop*.

C. Ailie Fraser, Tricia J. Ngoon, Ariel S. Weingarten, Mira Dontcheva, and Scott Klemmer. 2017. CritiqueKit: A Mixed-Initiative, Real-Time Interface For Improving Feedback. *UIST '17 Adjunct*.

C. Ailie Fraser, Mira Dontcheva, Holger Winnemöller, and Scott Klemmer. 2016. DiscoverySpace: Crowdsourced Suggestions Onboard Novices in Complex Software. *CSCW '16 Companion*.

Catherine M. Hicks, C. Ailie Fraser, Purvi Desai, and Scott Klemmer. 2015. Do numeric ratings impact peer reviewers? *Learning at Scale '15*.

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| DISSERTATION          | Contextually Recommending Expert Help and Demonstrations to Improve Creativity. 2020.<br>C. Ailie Fraser. <i>UC San Diego</i> .  |  |
| HONOURS AND AWARDS    | Award for Excellence in Service/Leadership, CSE Department, UCSD<br>Bouchet Graduate Honor Society Member<br>NSERC Postgraduate Scholarship – Doctoral (PGS-D)<br>Adobe Research Fellowship<br>Award for Contributions to Diversity, CSE Department, UCSD<br>Powell Fellowship, CSE Department, UCSD<br><br>NSERC CGS-M offers from UBC and U of T (declined)<br>Simeon Heman Janes Silver Medal<br>Dean’s List<br>Prof. William Kingston and Dr. John Kingston Scholarship<br>University of Toronto Scholar<br>Jessie Macpherson Memorial Scholarship<br>William Pearson Scott Scholarship<br>Mary Ellen Carty Residence Scholarship  | June 2019<br>January 2019<br>Fall 2017 – Spring 2019<br>2017<br>June 2016<br>Fall 2014 – Spring 2017<br><br>April 2014<br>Spring 2013<br>Spring 2010 – 2013<br>Fall 2012<br>Fall 2011<br>Fall 2011<br>Fall 2010<br>Fall 2009 |
| TEACHING & MENTORSHIP | Mentor, Early Research Scholars Program, UCSD<br>Mentored two undergraduate students in the Computer Science & Engineering department on a research project that resulted in a full paper at the UIST 2020 conference.<br><br>Mentor, GradWIC Mentorship Program, CSE Department, UCSD<br>Mentored three first-year graduate students in Computer Science & Engineering each year as part of the Graduate Women in Computing mentorship program.<br><br>Teaching Assistant, UCSD<br><i>CSE 216 / COGS 230 – Interaction Design Research</i><br>Managed course website, advised students, moderated discussions, and graded projects.<br><br>Teaching Assistant, University of Toronto<br><i>CSC148 – Introduction to Computer Science</i><br>Ran weekly labs, graded exams and assignments, held office hours, and proctored exam. | Fall 2018 – Spring 2019<br><br>Fall 2017 – Spring 2019<br><br>Fall 2015<br><br>Winters 2012, 2013  |
| OTHER EXPERIENCE      | Freelance Web Design & Development<br>Designed, built, and continue to manage website for Camp Wabikon ( <a href="http://www.wabikon.com">www.wabikon.com</a> )<br><br>Web Developing Consultant<br>Adapted a series of pitch recognition and memory tasks written in MATLAB to run online, as part of a study on music and language for the Rotman Research Institute at Baycrest<br><br>Casual Employee, University of Toronto<br>Web design and content for the Faculty of Arts & Science’s "FAStanswers" website for first-year students.  | Feb 2018 – present<br><br>Nov 2013 – May 2014<br><br>Jun 2012 – Apr 2014   |

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| SERVICE AND LEADERSHIP | <b>Organizing Committee, ACM UIST</b> <span style="float: right;">2020 - present</span><br>Co-publicity chair for UIST 2020 & UIST 2021 conferences.   |
|                        | <b>Organizing Committee, ACM Creativity &amp; Cognition</b> <span style="float: right;">2019</span><br>Co-website chair for Creativity & Cognition conference. Built & managed website:<br><a href="https://cc.acm.org/2019">https://cc.acm.org/2019</a> .   |
|                        | <b>Website Lead, Diversity, Equity &amp; Inclusion Committee, UCSD</b> <span style="float: right;">Fall 2017 – Winter 2020</span><br>Member of department-wide committee in Computer Science and Engineering, composed of students, faculty, and staff dedicated to highlighting and expanding efforts to improve diversity. Managed content & design for <a href="#">DEI website</a> as well as special event websites. |
|                        | <b>Graduate Women in Computing, UCSD</b> <span style="float: right;">Fall 2015 – Spring 2019</span><br>Treasurer and Mentorship Committee member 2017-2019, President 2015-2017. GradWIC aims to increase awareness of diversity issues and foster an inclusive CSE community.   |
|                        | <b>PhD Admissions Student Committee, UCSD</b> <span style="float: right;">Fall 2017 – Spring 2019</span><br>Co-leader of student committee for PhD admissions in the Computer Science and Engineering department.  |
| COURSEWORK AND SKILLS  | <b>The Beat, UCSD</b> <span style="float: right;">Fall 2014 – Spring 2016</span><br>Assistant Music Director 2015-2016, Section Leader 2014-2015. Directed, sang, and arranged music for The Beat, an award-winning acappella choir.   |
|                        | <b>Member, Introductory Math and Science Committee</b> <span style="float: right;">Fall 2012 – Spring 2013</span><br>Faculty of Arts & Science, University of Toronto  |
|                        | <b>Computer Skills:</b> <ul style="list-style-type: none"> <li>HTML, Javascript, Typescript, PHP, CSS, Swift, Python, MATLAB, C++, Java, C, SQL, OpenGL, OpenCV, Adobe Flash and Actionscript, Microsoft Office, Adobe Photoshop, LaTeX</li> </ul>   |
|                        | <b>Relevant Coursework:</b> <ul style="list-style-type: none"> <li><i>Computer Science</i>: Research in HCI and Ubiquitous Computing, Information Visualization, Computer Graphics and Vision, Web Programming, Programming Languages, Object-Oriented and Systems Programming</li> <li><i>Mathematics</i>: Mathematical Logic, Linear Algebra, Abstract Algebra, Calculus, Real and Complex Analysis</li> </ul>         |
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