

Anthony Poon

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I am a software engineer, designer, and researcher with long history of creating robust technology products and evaluating their impact for communities of underserved users. I have a strong background in program leadership and engaging collaboration between a wide range of academic and community actors. My work combines software development praxis, mixed research methods, and diverse theoretical perspectives to help marginalized populations foster networks of support to face the challenges of a changing and unequal social world.

Select Professional History

Senior Technical Advisor, I-TECH, School of Public Health, University of Washington 2023 – present

- Support, plan, and implement data modernization and capacity building of both health information systems and public health personnel in Ukraine, Peru, and multiple countries in Central Asia.

Graduate Researcher, Information Science, Cornell University 2016 – 2022

- Co-designed, implemented, and evaluated multiple sociotechnical interventions: to empower home care workers in New York City and to support the secondary school students' exam preparations in Yaoundé, Cameroon.
- Evaluated programs using qualitative and quantitative methods: interviews, focus groups, surveys, hypothesis testing, ethnographic observation, and discourse analysis.
- Designed a high availability and scalable software system to administer exam practice tests exam preparation practice tests in Cameroon in collaboration with educators and local NGOs.

Software Development Engineer II, Payments Platform, Amazon.com 2009 – 2016

- As technical lead and senior developer, designed payments software that securely processed millions of transactions per hour in dozens of nations.
- Developed both backend services in Payments Integration and frontend customer experiences in Amazon's common user experience for checkout and payment method management (Payments Portal).

Research Assistant, ASSIST Project, Computer Engineering, University of Washington 2007 – 2008

- Developed a graphical interface to view and analyze multiple streams of sensor data, such as GPS traces, photographs, audio, and ML-annotated activities.

Teaching Assistant, Pre-Calculus, Summer Stretch Program, University of Washington 2005 & 2006

Academic Background

Doctor of Philosophy in Information Science, Cornell University, New York 2022

- Committee: Nicola Dell (chair, IS), Sarah Giroux (Global Development), Parfait Eloundou-Enyegue (GD), and Aditya Vashistha (IS).

Bachelor of Science in Computer Engineering, University of Washington, Seattle 2009

- Cumulative GPA of 3.79 / 4.0 in Computer Engineering coursework.
- Collegiate honors.

Bachelor of Arts in Sociology, University of Washington, Seattle 2009

- Cumulative GPA of 3.64 / 4.0 in Sociology coursework.
- Collegiate honors.

Select Publications

- Designing for Peer-Led Critical Pedagogies in Computer-Mediated Support Groups for Home Care Workers** 2023
Anthony Poon, Lourdes Guerrero, Julia Loughman, Matthew Luebke, Ann Lee, Madeline Sterling, Nicola Dell in *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems*, Hamburg, Germany, April 2023.
- Computer-Mediated Sharing Circles for Intersectional Peer Support with Home Care Workers** 2023
Anthony Poon, Matthew Luebke, Julia Loughman, Ann Lee, Lourdes Guerrero, Madeline Sterling, Nicola Dell in *Proceedings of the ACM on Human-Computer Interaction (CSCW)*, Minneapolis, MN, October 2021.
- Computer-Mediated Peer Support Needs of Home Care Workers: Emotional Labor & the Politics of Professionalism** 2021
Anthony Poon, Vaidehi Hussain, Julia Loughman, Ariel C. Avgar, Madeline Sterling, Nicola Dell in *Proceedings of the ACM on Human-Computer Interaction (CSCW)*, published online, October 2021.
Awarded a *Recognition for Contribution to Diversity & Inclusion*.
- Baccalauréat Practice Tests in Cameroon: The Impact of SMS-Based Exam Preparation** 2020
Anthony Poon, Sarah Giroux, Parfait Eloundou-Enyegue, François Guimbretière, Nicola Dell in *Information and Communication Technologies and Development (ICTD)*, Guayaquil, Ecuador, June 2020.
- Practitioners and ICTD: Communities of Practice Theory in Technology Interventionism** 2020
Anthony Poon in *ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS)*, Guayaquil, Ecuador, June 2020.
- Engaging High School Students in Cameroon with Exam Practice Quizzes via SMS and WhatsApp** 2019
Anthony Poon, Sarah Giroux, Parfait Eloundou-Enyegue, François Guimbretière, Nicola Dell in *CHI Conference on Human Factors in Computing Systems Proceedings (CHI)*, Glasgow, UK, May 2019.
- Building a Transportation Information System Using Only GPS and Basic SMS Infrastructure** 2009
Ruth E. Anderson, Anthony Poon, Caitlin Lustig, Waylon Brunette, Gaetano Borriello, and Beth E. Kolko in *The International ACM/IEEE Conference on Information & Communication Technologies and Development (ICTD)*, Doha, Qatar, April 2009.

Select Awards and Honors

- Recognition for Contribution to Diversity & Inclusion**, CSCW 2021 2022
- Digital Life Initiative Doctoral Fellowship**, Digital Life Initiative, Cornell Tech 2020 – 2021
- Engaged Graduate Student Grant**, Engaged Cornell, Cornell University 2018 – 2019
- Outstanding Service Award**, Information Science, Cornell University 2016 – 2017

Select Academic Service

- Admissions Committee Member**, Information Science Graduate Student Association 2020 – 2021
- Co-President**, PhD Students at Cornell Tech 2020
- Cornell Tech Liaison**, Information Science Graduate Student Association 2019 – 2020
- Social Chair**, Information Science Graduate Student Association 2018 – 2019
- Social Chair**, PhD Students at Cornell Tech 2016 – 2017