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QUAN ZE (JIM) CHEN

APPOINTMENTS

2023–
University of Washington, Seattle, WA
Postdoctoral Scholar, Computer Science & Engineering
Advisors: Amy X. Zhang, Franziska Roesner

EDUCATION

2018–2023
University of Washington, Seattle, WA
Ph.D. Candidate, Computer Science & Engineering
Advisor: Amy X. Zhang

2016–2018
University of Washington, Seattle, WA
M.S. Computer Science & Engineering

2012–2016
University of Pennsylvania, Philadelphia, PA
B.S.E. Networked and Social Systems Engineering, Summa Cum Laude

PUBLICATIONS

Under Review

[r.1] **Quan Ze Chen**, Amy X. Zhang. Case Law Grounding: Aligning Judgments of Humans and AI on Socially-Constructed Concepts. *Under review. ACM Conference on Human Factors in Computing Systems (CHI '24)*. Oahu, HI. May 2024.

Conference and Journal Papers

- [c.10] Kianna Bolante, Kevin Chen, **Quan Ze Chen**, Amy X. Zhang. Bringing Social Computing to Secondary School Classrooms. *ACM Special Interest Group on Computer Science Education Technical Symposium (SIGCSE TS 2024)*. Portland, OR. March 2024.
- [c.9] Andre Ye, **Quan Ze Chen**, Amy X. Zhang. Confidence Contours: Uncertainty-Aware Annotation for Medical Semantic Segmentation. *AAAI Conference on Human Computation and Crowdsourcing (HCOMP '23)*. Delft, Netherlands. November 2023. **Honorable Mention**
- [c.8] **Quan Ze Chen**, Amy X. Zhang. Judgment Sieve: Reducing Uncertainty in Group Judgments through Interventions Targeting Ambiguity versus Disagreement. *ACM Conference On Computer-Supported Cooperative Work And Social Computing (CSCW '23)*. Minneapolis, MN. October 2023.
- [c.7] Shagun Jhaver, Alice Zhang, **Quan Ze Chen**, Detlef Knauss, Amy X. Zhang. Understanding User Preferences for Personal Content Moderation Controls. *ACM Conference On Computer-Supported Cooperative Work And Social Computing (CSCW '23)*. Minneapolis, MN. October 2023.
- [c.6] Teanna Barrett, **Quan Ze Chen**, Amy X. Zhang. Skin Deep: Investigating Subjectivity in Skin Tone Annotations for Computer Vision Benchmark Datasets. *ACM Conference on Fairness Accountability and Transparency (FAccT '23)*. Chicago, IL. June 2023.

- [c.5] Shagun Jhaver, **Quan Ze Chen**, Detlef Knauss, Amy X. Zhang. Designing Word Filter Tools for Creator-led Comment Moderation. *ACM Conference on Human Factors in Computing Systems (CHI '22)*. New Orleans, LA. April 2022.
- [c.4] **Quan Ze Chen**, Daniel S. Weld, Amy X. Zhang. Goldilocks: Consistent Crowdsourced Scalar Annotations with Relative Uncertainty. *Proceedings of the ACM on Human-Computer Interaction (CSCW '21)*. Virtual. October 2021.
- [c.3] **Quan Ze Chen**, Jonathan Bragg, Lydia B. Chilton, Daniel S. Weld. Cicero: Multi-Turn, Contextual Argumentation for Accurate Crowdsourcing. *ACM Conference on Human Factors in Computing Systems (CHI '19)*. Glasgow, United Kingdom. May 2019.
- [c.1] Wei Xu, Courtney Napoles, Ellie Pavlick, **Quan Ze Chen**, Chris Callison-Burch. Optimizing Statistical Machine Translation for Simplification. *Transactions of the Association for Computational Linguistics (ACL '16)*. Berlin, Germany. August 2016.

Posters and Work-in-Progress Papers

- [p.3] K. J. Kevin Feng, **Quan Ze Chen**, Inyoung Cheong, King Xia, Amy X. Zhang. Case Repositories: Towards Case-Based Reasoning for AI Alignment. *First Workshop on AI meets Moral Philosophy and Moral Psychology, Conference on Neural Information Processing Systems (MP2 Workshop at NeurIPS '23)*. New Orleans, LA. Dec 2023.
- [p.2] John Akers, Gagan Bansal, Gabriel Cadamuro, Christine Chen, **Quan Ze Chen**, Lucy Lin, Phoebe Mulcaire, Rajalakshmi Nandakumar, Matthew Rockett, Lucy Simko, John Toman, Tongshuang Wu, Eric Zeng, Bill Zorn, Franziska Roesner. Technology-enabled disinformation: Summary, lessons, and recommendation. *arXiv 2018*. Digital Preprint.
- [p.1] **Quan Ze Chen**, Chenyang Lei, Wei Xu, Ellie Pavlick, Chris Callison-Burch. Poetry of the Crowd: A Human Computation Algorithm to Convert Prose into Rhyming Verse *AAAI Conference on Human Computation and Crowdsourcing (HCOMP '14)*. Pittsburgh, PA. Sept 2014.

Doctoral Symposium

- [ds.1] **Quan Ze Chen**. Disentangling Inherent Ambiguity and Disagreement in Crowdsourced Annotation. *AAAI Conference on Human Computation and Crowdsourcing (HCOMP '21)*. Virtual. Nov 2021.

INDUSTRY EXPERIENCE AND INTERNSHIPS

- Summer 2021 Applied Scientist Intern, **SageMaker Ground Truth, Amazon AI**, Palo Alto, CA
Mentors: Mike Schaekermann, Matt Lease, Erran Li
- Spring 2020 Research Intern, **Human-AI eXperiences (HAX) Team, Microsoft Research**, Redmond, WA
Mentors: Besmira Nushi, Tobias Schnabel, Saleema Amershi
- Spring 2019 Research Intern, **Semantic Scholar, AI2**, Seattle, WA
Mentor: Dan Weld
- Summer 2015 Software Engineer Intern, **Google Inc.**, Los Angeles, CA
- 2010-2012 Research Intern, **Institute of Microbiology, Chinese Academy of Sciences**, Beijing, China
Mentor: Baoli Zhu

GRANTS

2023 *Democratic Inputs to AI, OpenAI Inc.*

TEACHING

Courses

Autumn 2022 Teaching Assistant, **CSE 440: Introduction To HCI**, UW CSE
Graduate TA for undergraduate special topics course.

Spring 2021 Teaching Assistant, **CSEP 590B: Enterprise Chatbots**, UW CSE
Graduate TA for MS level special topics course.

Winter 2021 Teaching Assistant, **CSE 415: Introduction to Artificial Intelligence**, UW CSE
Graduate TA for non-majors AI intro course.

Winter 2019 Teaching Assistant, **CSE 473: Introduction to Artificial Intelligence**, UW CSE
Graduate TA for majors AI intro course.

Spring 2019 Teaching Assistant, **CSEP 573: Introduction to Artificial Intelligence**, UW CSE
Graduate TA for MS AI intro course.

2013 - 2016 Teaching Assistant, **CIS 121: Data Structures and Algorithms**, University of Pennsylvania
Undergraduate TA, Head TA for undergraduate intro CS course.

INVITED TALKS

Nov 2023 **Colloquium**, University of Texas, Austin, TX
Working with Uncertainty to Align Humans and AI on Socially-Constructed Concepts

Sept 2023 **Democratic Inputs to AI**, OpenAI Inc., San Francisco, CA
Case Law for AI Policy

July 2023 **ASE Events Invited Talk**, Apple Inc., Seattle, WA
Tools and Workflows for Aligning Machine Learning Systems with Human Uncertainty

Aug 2022 **Stanford HCI Lunch**, Stanford University, Virtual
Understanding and Addressing Uncertainty of the Crowd

June 2022 **Expertise@Scale Salon**, Carnegie Mellon University, Virtual
Understanding and Addressing Uncertainty of the Crowd

SERVICE

Reviewer

Conferences: CHI '20-'24, CSCW '21-'23, WWW '20

Journals: JAIR

Workshops: CHI '22-'23 TRAIT

STUDENT ADVISING

Undergraduate Students

2023 Katie Yurechko

2022

Andre Ye, Teanna Barrett, Kianna Bolante