

Nicholas Vincent

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RESEARCH INTERESTS

Responsible Artificial Intelligence, Human-computer Interaction, Human-centered Machine Learning, Social Computing

ACADEMIC APPOINTMENTS

- **Simon Fraser University, School of Computing Science** *Burnaby, BC, Canada*
Assistant Professor *Aug. 2023 to present*
- **University of California, Davis** *Davis, CA, USA*
Postdoctoral Scholar *Jan. 2022 to Aug. 2022*
 - Co-advised by [Seth Frey](#) (UC Davis, Department of Communication) and [Amy X. Zhang](#) (University of Washington, School of Computer Science and Engineering)

EDUCATION

- **Northwestern University** *Sept. 2017 to Dec. 2022*
PhD in Technology and Social Behavior (joint degree, Computer Science and Communication)
 - Advisor: [Brent Hecht](#)
 - [Dissertation](#) - Data Leverage: A Framework for Empowering the Public to Mitigate Harms of Artificial Intelligence
 - SIGCHI 2024 Outstanding Dissertation Award, Department of Communication Dissertation Award
- **University of California, Los Angeles** *Sept. 2012 to June 2016*
BS in Electrical Engineering
 - Magna Cum Laude

ARCHIVAL PUBLICATIONS

- **A Canary in the AI Coal Mine: American Jews May Be Disproportionately Harmed by Intellectual Property Dispossession in Large Language Model Training** *2024*
ACM CHI 2024
 - Heila Precel, Allison McDonald, Brent Hecht, Nicholas Vincent
- **Pika: Empowering Non-Programmers to Author Executable Governance Policies in Online Communities** *2024*
ACM CHI 2024
 - Leijie Wang, Nicholas Vincent, Julija Rukanskaitė, Amy X. Zhang
- **Peer Produced Friction: How Page Protection on Wikipedia Affects Editor Engagement and Concentration** *2023*
[10.1145/3610198](#) (ACM CSCW 2023)
 - Leah Ajmani, Nicholas Vincent, Stevie Chancellor
- **The Dimensions of Data Labor: A Road Map for Researchers, Activists, and Policymakers to Empower Data Producers** *2023*
[10.1145/3593013.3594070](#) (ACM FAccT 2023)
 - Hanlin Li, Nicholas Vincent, Stevie Chancellor, Brent Hecht

- **Behavioral Use Licensing for Responsible AI** 2022
[10.1145/3531146.3533143](https://doi.org/10.1145/3531146.3533143) [🔗](#) (ACM FAccT 2022)
 ◦ Danish Contractor, Daniel McDuff, Julia Katherine Haines, Jenny Lee, Christopher Hines, Brent Hecht, Nicholas Vincent, Hanlin Li”
- **CEAM: The Effectiveness of Cyclic and Ephemeral Attention Models of User Behavior on Social Platforms** 2021
[10.1609/icusm.v15i1.18046](https://doi.org/10.1609/icusm.v15i1.18046) [🔗](#) (AAAI ICWSM 2021)
 ◦ Farhan Asif Chowdhury, Yozen Liu, Koustuv Saha, Nicholas Vincent, Leonardo Neves, Neil Shah, Maarten W Bos”
- **Addressing ”Documentation Debt” in Machine Learning Research: A Retrospective Datasheet for BookCorpus** 2021
NeurIPS 2021 Datasets and Benchmarks Track
 ◦ Jack Bandy, Nicholas Vincent
- **AdverTiming Matters: Examining User Ad Consumption for Effective Ad Allocations on Social Media** May 2021
[10.1145/3441764.3445394](https://doi.org/10.1145/3441764.3445394) [🔗](#) (ACM CHI 2021)
 ◦ Koustuv Saha, Yozen Liu, Nicholas Vincent, Farhan Asif Chowdhury, Leonardo Neves, Neil Shah, Maarten W Bos
- **A Deeper Investigation of the Importance of Wikipedia Links to Search Engine Results** 2021
[10.1145/3449078](https://doi.org/10.1145/3449078) [🔗](#) (ACM CSCW 2021)
 ◦ Nicholas Vincent, Brent Hecht
- **Can ”Conscious Data Contribution” Help Users to Exert ”Data Leverage” Against Technology Companies?** 2021
[10.1145/3449177](https://doi.org/10.1145/3449177) [🔗](#) (ACM CSCW 2021)
 ◦ Nicholas Vincent, Brent Hecht
- **Data Leverage: A Framework for Empowering the Public in its Relationship with Technology Companies** 2021
[10.1145/3442188.3445885](https://doi.org/10.1145/3442188.3445885) [🔗](#) (ACM FAccT 2021)
 ◦ Nicholas Vincent, Hanlin Li, Nicole Tilly, Stevie Chancellor, Brent Hecht”
- **How Do People Change Their Technology Use in Protest?: Understanding ”Protest Users”** 2019
[10.1145/3359189](https://doi.org/10.1145/3359189) [🔗](#) (ACM CSCW 2019)
 ◦ Hanlin Li, Nicholas Vincent, Janice Tsai, Jofish Kaye, Brent Hecht”
- **Measuring the Importance of User-Generated Content to Search Engines** 2019
[10.1609/icusm.v13i01.3248](https://doi.org/10.1609/icusm.v13i01.3248) [🔗](#) (AAAI ICWSM 2019)
 ◦ Nicholas Vincent, Isaac Johnson, Patrick Sheehan, Brent Hecht
- **”Data Strikes”: Evaluating the Effectiveness of a New Form of Collective Action Against Technology Companies** 2019
[10.1145/3308558.3313742](https://doi.org/10.1145/3308558.3313742) [🔗](#) (ACM The Web Conference 2019)
 ◦ Nicholas Vincent, Brent Hecht, Shilad Sen
- **Women (still) ask for less: Gender differences in hourly rate in an online labor marketplace** Nov. 2018
[10.1145/3274322](https://doi.org/10.1145/3274322) [🔗](#) (ACM CSCW 2018)
 ◦ Eureka Foong, Nicholas Vincent, Brent Hecht, Elizabeth M Gerber

- **Examining Wikipedia With a Broader Lens: Quantifying the Value of Wikipedia’s Relationships with Other Large-Scale Online Communities** 2018
10.1145/3173574.3174140 [🔗](#) (*ACM CHI 2018*)
 - Nicholas Vincent, Isaac Johnson, Brent Hecht

WORKSHOP PUBLICATIONS

- **An Alternative to Regulation: The Case for Public AI** 2023
RegML 2023 (NeurIPS 2023 Workshop)
 - Nicholas Vincent, David Bau, Sarah Schwettmann, Joshua Tan
- **Sharing the Winnings of AI with Data Dividends: Challenges with ‘Meritocratic’ Data Valuation** 2023
EAAMO 2023
 - Nicholas Vincent, Brent Hecht
- **Collaborative Design of Contribution Tracking Systems for Decentralized Organizations** 2022
CESEC 2022 @ UC Berkeley
 - Nicholas Vincent, Christine Vandevoorde
- **Misleading Tweets and Helpful Notes: Investigating Data Labor by Twitter Birdwatch Users** 2022
ACM CSCW 2022 Posters
 - Isaiah Jones, Brent Hecht, Nicholas Vincent
- **Deep learning of tissue fate features in acute ischemic stroke** 2015
BIBM 2015 Workshop on Biomedical Visual Search and Deep Learning
 - Noah Stier, Nicholas Vincent, David Liebeskind, Fabien Scalzo”
- **Detection of hyperperfusion on arterial spin labeling using deep learning** 2015
BIBM 2015 Workshop on Biomedical Visual Search and Deep Learning
 - Nicholas Vincent, Noah Stier, Songlin Yu, David S Liebeskind, Danny JJ Wang, Fabien Scalzo”

OTHER PUBLICATIONS

- **Twitter Engagement with Retracted Articles: Who, When, and How?** 2022
arXiv preprint
 - Rod Abhari, Nicholas Vincent, Henry K Dambanemuya, Herminio Bodon, Emőke-Ágnes Horvát”
- **A Data Dividend that Works: Steps Toward Building an Equitable Data Economy** 2021
Berggruen Institute white paper
 - Yakov Feygin, Hanlin Li, Chirag Lala, Brent Hecht, Nicholas Vincent, Luisa Scarcella, Matthew Prewitt”
- **Mapping the Potential and Pitfalls of ‘Data Dividends’ as a Means of Sharing the Profits of Artificial Intelligence.** 2019
arXiv preprint
 - Nicholas Vincent, Yichun Li, Renee Zha, Brent Hecht”

PROFESSIONAL EXPERIENCE

- **Microsoft** *Redmond, WA, USA*
Research Intern (Office of the CTO) *May 2021 to Aug. 2021*
- **Snap Inc** *Santa Monica, CA, USA*
Research Intern (Computational Social Science) *Mar. 2021 to June 2021*
- **Cloudbakers** *Chicago, IL, USA*
Cloud Programming Specialist *Sept. 2016 to June 2017*
- **Space and Naval Warfare Systems Command (now NAVWAR)** *San Diego, CA, USA*
NREIP Naval Research Intern *June 2016 to Aug. 2016*
 - Also interned in 2015
- **Cisco Systems** *San Jose, CA, USA*
Software Engineer Intern *June 2014 to Sept. 2014*
 - Also interned in 2013 (Cross Functional Intern)

TEACHING EXPERIENCE

- **Simon Fraser University, School of Computing Science** *Jan. 2024 to Apr. 2024*
Primary Instructor
 - [CMPT 419](#), Special Topics in AI: Human and Data-centered AI, 50 students.
- **Simon Fraser University, School of Computing Science** *Sept. 2023 to Dec. 2023*
Primary Instructor
 - [CMPT 120](#), Introduction to Computing Science and Programming, 200 students.
- **Northwestern University** *Sept. 2020 to Dec. 2020*
Teaching Assistant
 - [MTS 525](#), Statistics and Statistical Programming

ACADEMIC REVIEWING

- **Conferences:** ACM SIGCHI; ACM CSCW; AAAI ICWSM; NeurIPS; NeurIPS Datasets and Benchmarks Track; ACM The Web Conference; WikiWorkshop; ACM FAccT; ACM WSDM; IC2S2; ACM EAAMO
- **Journals:** Nature Machine Intelligence; PLOS One; Patterns; Information, Communication, and Society; ACM Journal on Responsible Computing
- **Commendations:** Best Reviewer - ICWSM 2022, Outstanding Reviewer - NeurIPS Datasets and Benchmarks 2022, Best Reviewer - ICWSM 2021, Highly useful reviewer - CSCW 2022

SERVICE ROLES

- **California Data Dividends Working Group** *2019-2022*
 - Co-organizer of a working group formed to study and prepare a report on "data dividends"
- **Northwestern University Artificial Intelligence Journal Club** *2019-2021*
 - Co-organizer
- **Northwestern University, Computer Science Ph.D. Advisory Council** *Jan. 2018*
- **InfoSocial Graduate Student Conference** *2018-2019*
 - Served as one of two co-chairs for the [InfoSocial](#) student-run conference, which included paper sessions, panels, and networking opportunities.

UNDERGRADUATE RESEARCH MENTORING

- **At Northwestern University (People, Space, and Algorithms Research Group):** Patrick Sheehan (co-wrote a conf. paper), Ramish Zaidi, Alan Li (co-wrote a preprint), Renee Zha (co-wrote a preprint), Neil Vakharia, Isaiah Jones (first author of a workshop paper)
- **At Simon Fraser University (People and Data Computing Group):** Clare Provezano (first author of a workshop paper)

AWARDS

- ACM SIGCHI Outstanding Dissertation [Award](#) , 2024
- Northwestern University School of Communication Graduate Dissertation [Award](#) , 2023
- President Fellowship Finalist, Northwestern University, 2019
- NSF-GRFP Honorable Mention, 2018

SELECTED TALKS

- **A New Grand Data Bargain for Public Interest AI** *Feb. 2024*
 - Event: [Digital Democracies Institute Spring Speaker Series](#) 
- **Responsive LLM Development** *Jan. 2024*
 - Event: [University of Toronto Data Sciences Institute: Fairness - ChatGPT Workshop](#) 
- **Community Dialogue on Accountable Governance and Data** *Mar. 2023*
 - Event: [Community Data Science Collective Community Dialogues](#) 
- **Algorithmic Contestability** *Jan. 2023*
 - Event: [Center for Advancing Safety of Machine Intelligence, Toward a Safety Science of AI](#) 
- **Public interest technologies for the ML age** *May 2021*
 - Event: [3rd Obfuscation Workshop](#) 
- **The Importance of Wikipedia to Search Engines and Other Systems** *May 2021*
 - Event: [Wikipedia Research Showcase](#)  (Video )
- **Data Agency: Individual or Shared?** *Jan. 2021*
 - Event: [RadicalxChange Panels](#) (Video )
- **Data Driven Economy for All** *July 2020*
 - Event: [RadicalxChange 2020 Conference](#)  (Video )
- **The Critical Relationship of Volunteer-Created Wikipedia Content to Large-Scale Online Communities** *Apr. 2018*
 - Event: [Wikipedia Research Showcase](#)  (Video )