## **Nicholas Vincent**

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## **Research Interests**

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

## **Academic Appointments**

2023–Present Assistant Professor

Simon Fraser University, Computing Science

Affiliate at Digitial Democracies Institute and School of Public Policy. Research Director at Metagov.

2022-2023 Postdoctoral Scholar

University of California, Davis, Communication

Co-advised by <u>Seth Frey</u> (UC Davis, Department of Communication) and <u>Amy X. Zhang</u> (University of Washington, School of Computer Science and Engineering)

#### **Education**

2017/09- PhD, Technology and Social Behavior (joint degree, Computer Science and Communication)

2022/11 Northwestern University

• Advisor: Brent Hecht

• Data Leverage: A Framework for Empowering the Public to Mitigate Harms of Artificial Intelligence. Received SIGCHI 2024 Outstanding Dissertation Award and Northwestern University School of Communication Dissertation Award. [link]

2012/09- BS, Electrical Engineering

2016/06 University of California, Los Angeles

• Magna Cum Laude

#### Peer Reviewed

#### [P20] Responsible AI in Open Ecosystems: Reconciling Innovation with Risk Assessment and Disclosure

Mahasweta Chakraborti, Bert Joseph Prestoza, Nicholas Vincent, Seth Frey

AIES, 2025. [Link]

(Previously appeared as a workshop paper at AAAI Workshop on AIGOV)

#### [P19] An Audit and Analysis of LLM-Assisted Health Misinformation Jailbreaks Against LLMs

Ayana Hussain, Patrick Zhao, Nicholas Vincent

AIES, 2025. [arXiv]

#### [P18] Algorithmic Collective Action with Two Collectives

Aditya Karan, Nicholas Vincent, Karrie Karahalios, Hari Sundaram

ACM FAccT, 2025. [arXiv]

#### [P17] Push and Pull: A Framework for Measuring Attentional Agency on Digital Platforms

Zachary Wojtowicz, Shrey Jain, Nicholas Vincent

ACM FAccT, 2025. [arXiv]

#### [P16] Pika: Empowering Non-Programmers to Author Executable Governance Policies in Online Communities

Leijie Wang, Nicholas Vincent, Julija Rukanskaitė, Amy X. Zhang

ACM CHI, 2024. [arXiv] [DOI] [Semantic Scholar]

# [P15] A Canary in the AI Coal Mine: American Jews May Be Disproportionately Harmed by Intellectual Property Dispossession in Large Language Model Training

Heila Precel, Allison McDonald, Brent Hecht, Nicholas Vincent

ACM CHI, 2024. [arXiv] [ACM DL] [DOI] [Semantic Scholar]

#### [P14] Peer Produced Friction: How Page Protection on Wikipedia Affects Editor Engagement and Concentration

Leah Ajmani, Nicholas Vincent, Stevie Chancellor

ACM CSCW, 2023. [DOI] [PDF]

## [P13] The Dimensions of Data Labor: A Road Map for Researchers, Activists, and Policymakers to Empower Data Producers

Hanlin Li, Nicholas Vincent, Stevie Chancellor, Brent Hecht

ACM FAccT, 2023. [DOI] [Link] [Blog]

#### [P12] Behavioral Use Licensing for Responsible AI

Danish Contractor, Daniel McDuff, Julia Katherine Haines, Jenny Lee, Christopher Hines, Brent Hecht, **Nicholas Vincent**, Hanlin Li ACM FAccT, 2022. [DOI] [Link]

#### [P11] CEAM: The Effectiveness of Cyclic and Ephemeral Attention Models of User Behavior on Social Platforms

Farhan Asif Chowdhury, Yozen Liu, Koustuv Saha, **Nicholas Vincent**, Leonardo Neves, Neil Shah, Maarten W Bos AAAI ICWSM, 2021. [DOI] [PDF]

# [P10] Addressing "Documentation Debt" in Machine Learning Research: A Retrospective Datasheet for BookCorpus Jack Bandy, Nicholas Vincent

NeurIPS Datasets and Benchmarks, 2021. [arXiv] [Blog]

#### [P9] AdverTiming Matters: Examining User Ad Consumption for Effective Ad Allocations on Social Media

Koustuv Saha, Yozen Liu, **Nicholas Vincent**, Farhan Asif Chowdhury, Leonardo Neves, Neil Shah, Maarten W Bos ACM CHI, 2021. [DOI] [PDF]

#### [P8] A Deeper Investigation of the Importance of Wikipedia Links to Search Engine Results

Nicholas Vincent, Brent Hecht

ACM CSCW, 2021. [ACM DL] [DOI] [Semantic Scholar] [Code]

## [P7] Can "Conscious Data Contribution" Help Users to Exert "Data Leverage" Against Technology Companies?

Nicholas Vincent, Brent Hecht

ACM CSCW, 2021. [DOI] [PDF] [Code]

(Previously appeared as a workshop paper at Collective Intelligence.)

## $[P6] \quad \textbf{Data Leverage: A Framework for Empowering the Public in its Relationship with Technology Companies} \\$

Nicholas Vincent, Hanlin Li, Nicole Tilly, Stevie Chancellor, Brent Hecht

ACM FAccT, 2021. [DOI] [Link]

#### [P5] How Do People Change Their Technology Use in Protest?: Understanding 'Protest Users'

Hanlin Li, Nicholas Vincent, Janice Tsai, Jofish Kaye, Brent Hecht

ACM CSCW, 2019. [DOI] [PDF]

(Two co-first authors.)

#### [P4] Measuring the Importance of User-Generated Content to Search Engines

Nicholas Vincent, Isaac Johnson, Patrick Sheehan, Brent Hecht

AAAI ICWSM, 2019. [DOI] [PDF] [Code]

(Previously appeared as a workshop paper at WikiWorkshop.)

## [P3] "Data Strikes": Evaluating the Effectiveness of a New Form of Collective Action Against Technology Companies

Nicholas Vincent, Brent Hecht, Shilad Sen

ACM The Web Conference, 2019. [DOI] [PDF] [Code]

#### [P2] Women (still) ask for less: Gender differences in hourly rate in an online labor marketplace

Eureka Foong, Nicholas Vincent, Brent Hecht, Elizabeth M Gerber

ACM CSCW, 2018. [DOI] [PDF]

## [P1] Examining Wikipedia With a Broader Lens: Quantifying the Value of Wikipedia's Relationships with Other Large-

### **Scale Online Communities**

Nicholas Vincent, Isaac Johnson, Brent Hecht

ACM CHI, 2018. [DOI] [PDF] [Code]

(Best paper award.)

#### **Workshop Papers & Posters**

#### [W16] Epistemic Authority in AI Fact-Checking: A Human and Data Centric Perspective

Devansh Bhojak, Nicholas Vincent

4S 2025 Conference: Reverberations, 2025.

#### [W15] If open source is to win, it must go public

Joshua Tan, Nicholas Vincent, Katherine Elkins, Magnus Sahlgren

CodeML @ ICML 2025, 2025. [Link]

#### [W14] Step-By-Step Reasoning with Meta Cognitive Prompts to Reduce Contextual Hallucination

Brian Miki, Nicholas Vincent

HEAL Workshop @ CHI 2025, 2025.

# [W13] Canada as a Champion for Public AI: Data, Compute and Open Source Infrastructure for Economic Growth and Inclusive Innovation

Nicholas Vincent, Mark Surman, Jake Hirch-Allen

author preprint, 2025. [PDF]

### [W12] Responsible AI in Open Ecosystems: Reconciling Innovation with Risk Assessment and Disclosure

Mahasweta Chakraborti, Bert Joseph Prestoza, Nicholas Vincent, Seth Frey

AAAI 2025 Workshop on AIGOV, 2025. [Link]

#### [W11] Designing an open-source LLM interface and social platforms for collectively driven LLM evaluation and auditing

Timothy J. Baek, Nicholas Vincent, Lawrence Kim

HEAL Workshop @ CHI 2024, 2024. [Code]

#### [W10] The Need for Flexible Interfaces for Text-to-Image Auditing: A Case Study of DALL-E 2 and DALL-E 3

Clare Provenzano, Parsa Rajabi, Diana Cukierman, Nicholas Vincent

GenAICHI @ CHI 2024, 2024. [PDF]

#### [W9] An Alternative to Regulation: The Case for Public AI

Nicholas Vincent, David Bau, Sarah Schwettmann, Joshua Tan

RegML 2023 Workshop @ NeurIPS 2023, 2023. [Link]

#### [W8] Sharing the Winnings of AI with Data Dividends: Challenges with 'Meritocratic' Data Valuation

Nicholas Vincent, Brent Hecht

EAAMO 2023 Poster Track, 2023. [PDF]

## [W7] Epistemic Injustice in Online Communities: Unpacking the Values of Knowledge Creation and Curation within CSCW Applications

 $Leah\ Ajmani,\ Mo\ Houtti,\ Jasmine\ C\ Foriest,\ Michael\ Ann\ Devito,\ \textbf{Nicholas\ Vincent},\ Isaac\ Johnson$ 

Workshop at CSCW, 2023. [Link]

#### [W6] Can Licensing Mitigate the Negative Implications of Commercial Web Scraping?

Hanlin Li, Nicholas Vincent, Yacine Jernite, Nick Merrill, Jesse Josua Benjamin, Alek Tarkowski

Workshop at CSCW 2023, 2023. [Link]

#### [W5] Ethical Tensions, Norms, and Directions in the Extraction of Online Volunteer Work

Hanlin Li, Leah Ajmani, Moyan Zhou, **Nicholas Vincent**, Sohyeon Hwang, Tiziano Piccardi, Sneha Narayan, Sherae Daniel, Veniamin Veselovsky

Workshop at CSCW, 2022. [Link]

## $[W4] \quad \textbf{Misleading Tweets and Helpful Notes: Investigating Data Labor by Twitter Birdwatch Users}$

Isaiah Jones, Brent Hecht, Nicholas Vincent

ACM CSCW Posters, 2022. [PDF]

#### [W3] Collaborative Design of Contribution Tracking Systems for Decentralized Organizations

Nicholas Vincent, Christine Vandevoorde

CESC 2022, 2022. [PDF]

#### [W2] Deep learning of tissue fate features in acute ischemic stroke

Noah Stier, Nicholas Vincent, David Liebeskind, Fabien Scalzo

BIBM 2015 Workshop on Biomedical Visual Search and Deep Learning, 2015. [Link]

#### [W1] Detection of hyperperfusion on arterial spin labeling using deep learning

Nicholas Vincent, Noah Stier, Songlin Yu, David S Liebeskind, Danny JJ Wang, Fabien Scalzo

BIBM 2015 Workshop on Biomedical Visual Search and Deep Learning, 2015. [Link]

#### Other Publications

#### [08] Collective Bargaining in the Information Economy Can Address AI-Driven Power Concentration

Nicholas Vincent, Matthew Prewitt, Hanlin Li

arxiv preprint, 2025. [Link]

# [O7] WikiGap: Promoting Epistemic Equity by Surfacing Knowledge Gaps Between English Wikipedia and other Language Editions

Zining Wang, Yuxuan Zhang, Dongwook Yoon, Nicholas Vincent, Farhan Samir, Vered Shwartz

arXiv preprint, 2025. [Link]

#### [06] AI for Just Work: Constructing Diverse Imaginations of AI beyond "Replacing Humans"

Weina Jin, Nicholas Vincent, Ghassan Hamarneh

arXiv preprint, 2025. [Link]

#### [05] A step forward in tracing and documenting dataset provenance

#### Nicholas Vincent

Nature Machine Intelligence, News & Views, 2024. [DOI] [Link]

#### [04] Twitter Engagement with Retracted Articles: Who, When, and How?

Rod Abhari, **Nicholas Vincent**, Henry K Dambanemuya, Herminio Bodon, Emőke-Ágnes Horvát arXiv preprint, 2022. [Link]

#### [O3] From My Data to Our Data

Yakov Feygin, **Nicholas Vincent**, Hanlin Li, Chirag Lala, Luisa Scarcella Book Chapter, 2021. [Link]

#### [O2] A Data Dividend that Works: Steps Toward Building an Equitable Data Economy

Yakov Feygin, Hanlin Li, Chirag Lala, Brent Hecht, **Nicholas Vincent**, Luisa Scarcella, Matthew Prewitt Berggruen Institute white paper, 2021. [Link]

#### [01] Mapping the Potential and Pitfalls of 'Data Dividends' as a Means of Sharing the Profits of Artificial Intelligence.

Nicholas Vincent, Yichun Li, Renee Zha, Brent Hecht

arXiv preprint, 2019. [Link]

#### Grants

2025–2026 Informing Memory Institutions and Humanities Researchers of the Broader Impact of Open Data Sharing via Wikidata (Wikimedia)

Role: Collaborator. Amount: 49,450 USD. With: Hanlin Li.

2024–2029 Empowering Data Creators to Advance Responsible Artificial Intelligence (NSERC Discovery Grant with

supplement)

Role: Principal Investigator. Amount: 175,000 CAD.

2024–2025 Data Empowerment through Data Sharing in the Humanities (Breaking Barriers Interdisciplinary Incentive

Grant (SFU))

Role: Co-Investigator. Amount: 60,000 CAD. With: Michelle Levy, Sheelagh Carpendale, Denise Oleksijczuk.

#### **Awards and Honors**

2024: ACM SIGCHI Outstanding Dissertation Award, ACM SIGCHI (details)

2023: Graduate Dissertation Award, Northwestern University School of Communication (details)

2019: Presidential Fellowship Finalist, Northwestern University

2018: NSF Graduate Research Fellowship Program Honorable Mention, National Science Foundation (NSF)

## Teaching Experience

Fall 2025	Instructor, CMPT120 Introduction to Computing Science and Programming Simon Fraser University (~200 students)
Fall 2025	Instructor, CMPT419 Special Topics in AI: Collective Action and Public Interest AI Simon Fraser University (~60 students)
Spring 2025	Instructor, CMPT419 Special Topics in AI: Human and Data-centered AI Simon Fraser University (~40 students)[outline]
Fall 2024	Instructor, CMPT120 Introduction to Computing Science and Programming Simon Fraser University (~169 students)
Spring 2024	Instructor, CMPT419 Special Topics in AI: Human and Data-centered AI Simon Fraser University (~53 students)[outline]
Fall 2023	Instructor, CMPT120 Introduction to Computing Science and Programming Simon Fraser University (~188 students)[outline]
2023-2025	Special research projects supervision, I also supervise special research projects (offered through CMPT415/416 and 498 for undergrad honours thesis). Total students: 1 in 2023, 16 in 2024, 10 in 2025. Special Research Projects Simon Fraser University (~27 students)
Fall 2020	<b>Teaching Assistant</b> , MTS525 Statistics and Statistical Programming (graduate)  Northwestern University [outline]

## **Research Mentoring**

## MSc (advisor)

David Pham (2025-Present, Simon Fraser University)

Notes: Supervisor

Patrick Zhao (2025-Present, Simon Fraser University)

Notes: Supervisor

Vitor Hugo (2025-Present, Simon Fraser University)

Notes: Supervisor

#### MSc (committee)

Mahdie Ghane (2023–2023, Simon Fraser University)

Notes: Committee member

Parsa Rajabi (2023-Present, Simon Fraser University)

Notes: Examiner

Tim Baek (2024–2025, Simon Fraser University)

Notes: Committee member

Yonghao Shi (2024–2024, Simon Fraser University)

Notes: Committee member

#### PhD

Afra Liu (2024-Present, Simon Fraser University)

Notes: Co-supervisor

## PhD (committee)

Aditya Karan (2023-Present, UIUC)

Notes: External Committee Member

Heila Precel (2023-Present, Boston University)

Notes: External Committee Member

#### Undergrad

Alan Li (2019–2019, Northwestern University)

Co-author on 2019 preprint

Anton Kazachenko (2025–2025, Simon Fraser University) Current: Continuing Studies...

Ayana Hussain (2024–Present, Simon Fraser University) Current: Continuing Studies.

AIES full paper (student was first author)

Brian Miki (2025–2025, Simon Fraser University) Current: Continuing Studies.

HEAL@CHI 2025 workshop paper (student was first author)

Clare Provenzano (2023–2025, Simon Fraser University) Current: Continuing Studies.

GenAI@CHI workshop paper (student was first author)

Cole Thacker (2025–2025, Simon Fraser University) Current: Amazon.

BC AI Safety Curriculum

Dev Bhojak (2024–Present, Simon Fraser University) Current: Continuing Studies.

S4 workshop paper (student was first author)

Isaiah Jones (2021–2022, Northwestern University)

First-author of 2022 CSCW poster track paper

Justine Gerard (2025–2025, Simon Fraser University) Current: Continuing Studies.

Jyotiraditya Mayor (2024–2025, Simon Fraser University) Current: Launched start-up.

## Patrick Sheehan (2018–2019, Northwestern University)

Co-authored 2019 ICWSM paper

## Renee Zha (2019–2019, Northwestern University)

Co-author on 2019 preprint

## Industry Experience

2021/05– 2021/08	<b>Research Intern</b> Microsoft, Office of the CTO, Redmond, WA
2020/03–	Research Intern
2020/06	Snap Inc, Computational Social Science, Santa Monica, CA
2016/09–	Cloud Programming Specialist
2017/06	Cloudbakers, Chicago, IL
2016/06–	NREIP Naval Research Intern
2016/09	Space and Naval Warfare Systems Command (now NAVWAR), San Diego, CA
2015/06–	NREIP Naval Research Intern
2015/09	Space and Naval Warfare Systems Command (now NAVWAR), San Diego, CA
2014/06–	Software Engineer Intern
2014/09	Cisco Systems, San Jose, CA
2013/06–	Cross Functional Intern
2013/09	Cisco Systems, San Jose, CA

#### **Academic Service**

#### Reviewing

Meta-reviews / Program Committee: AAAI ICWSM 2023; ACM EAAMO 2023; ACM CHI (2025, 2026); NeurIPS Position Papers 2025

HCI/Social Computing Conference Reviews: ACM CHI (2019, 2021, 2022, 2023, 2024); ACM CSCW (2020, 2021, 2022, 2025); AAAI ICWSM (2020, 2021, 2022, 2023, 2024); ACM The Web Conference (2022, 2023); WikiWorkshop (2023, 2025); IC2S2 (2023); SEGA Workshop on Smart Education and Generative AI (2025)

ML Conference Reviews: NeurIPS (2023, 2024); NeurIPS Datasets and Benchmarks (2021, 2022, 2023, 2024, 2025); ICML (2024); ICML Position Papers (2025); ICML Workshops (DataWorld - 2025); ACM FAccT (2022, 2023, 2024, 2025); ACM WSDM (2023); AAAI (2024); ICLR (2024)

**Journal Reviews:** Nature Machine Intelligence; PLOS One; Patterns; Information, Communication, and Society; ACM Journal on Responsible Computing

Grant Reviews: Wikimedia Foundation Research Fund; NSERC (2024)

**Commendations:** Best Reviewer - ICWSM 2021, ICWSM 2022; Special recognitions - NeurIPS Datasets and Benchmarks 2022, CSCW 2022, CHI 2025

### **Committee & Organizing Roles**

2025: Organizer, Workshop on Algorithmic Collective Action @ NeurIPS 2025

2024: Advisor, Workshop on Creativity & Generative AI @ NeurIPS 2024

2024: Member, Simon Fraser University, Media, Communication, and Events Committee

2024: Organized the Data Challenge track at ICWSM 2024., ICWSM 2024 Data Challenge Co-chair

2023: Member, Simon Fraser University, Undergraduate Program Committee

2023 : Organizer of the AI Palace conference/residency in Bückeberg, Germany in Summer 2023 and Summer 2024., AI Palace Conference/Residency

2019 : Organizer, California Data Dividends Working Group, Organizer

2019: Organizer, Northwestern University Artificial Intelligence Journal Club

2018: Member, Northwestern University, Computer Science Ph.D. Advisory Council

2018: Co-chair, InfoSocial Graduate Student Conference

## Selected Talks & Panels

2025/08	Data Leverage and AI Safety Singagore AI Safety Hub
2025/03	Canada as Champion for Public AI  McMaster Internet Policy Lab
2025/03	Emerging Concerns with the Generative AI Data Paradigm (and how academic research and "public ai" can help)  UBC NLP
2025/03	Activism in the Age of AI  IATSE 891 AI Day of Learning @ Downtown Vancouver
2024/09	Human-Centered AI Research and New Paradigms for Generative AI Data Human-Centered AI Conference @ Pepperdine University
2024/05	Economic Concentration and Dispossessive Data Use: Can HCI Solve Challenges from and to AI? SIGCHI 2024 Outstanding Dissertation Award
2024/02	A New Grand Data Bargain for Public Interest AI SFU DDI
2024/01	Responsive LLM Development (Panel) University of Toronto Data Sciences Institute: Fairness - ChatGPT Workshop
2023/03	Community Dialogue on Accountable Governance and Data Community Data Science Collective Community Dialogues
2023/02	Human-centered data and language models Privacy, data as labor, and licensing Stanford Social NLP Reading Group Talks
2023/01	Algorithmic Contestability Center for Advancing Safety of Machine Intelligence, Toward a Safety Science of AI
2022/12	Does the rise of AI need us to adopt new data licensing policies? (Panel)  Open Health Data and AI Summit 2022
2021/05	The Importance of Wikipedia to Search Engines and Other Systems Wikipedia Research Showcase
2021/05	Public interest technologies for the ML age 3rd Obfuscation Workshop
2021/01	Data Agency: Individual or Shared? RadicalxChange Panels
2020/07	Data Driven Economy for All (Panel) RadicalxChange 2020 Conference
2018/04	The Critical Relationship of Volunteer-Created Wikipedia Content to Large-Scale Online Communities Wikipedia Research Showcase

## Selected Media Coverage

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2025-09: Should the public sector build its own AI?, The Financial Times. (Coverage) (Link)
2025-07: 'Trial and error': Over half of AI redundancies a mistake, say leaders, Canadian HR Reporter. (Interview) (Link)
2025-05: Can Wikipedia survive the rise of AI and Trump?, Australian Broadcasting Corporation. (Interview) (Link)
2025-05: 'Trial and error': Over half of AI redundancies a mistake, say leaders, Canadian HR Reporter. (Interview) (Link)
2025-04: Inside Meta's secret experiments that improve its AI models, Business Insider. (Interview) (Link)
2025-01: OpenAI Is Reaping What It Sowed With DeepSeek, Business Insider. (Interview) (Link)
2024-06: Is data supply AI's Achilles' heel?, UBS. (Coverage) (Link)
2024-04: Is this AI? See if you can spot the technology in your everyday life, The Washington Post. (Interview) (Link)
2024-03: Jews have always been prolific writers. Has AI wound up with too much of their work?, Jewish Telegraphic Agency.
(Interview) (Link)
2024-03: Nicholas Vincent explains why robots.txt is no longer enough to protect..., IT Brew. (Interview) (Link)
2024-01: AI is killing the grand bargain at the heart of the web, Business Insider. (Interview) (Link)
2023-10: Newspapers want payment for articles used to power ChatGPT, The Washington Post. (Interview) (Link)
2023-08: 'Data leverage' and the Harry Potter test: How much is a single book worth..., Business Insider. (Interview) (Link)
2023-07: Wikipedia's Moment of Truth, New York Times Magazine. (Interview) (Link)
2023-06: We are all AI's free data workers, MIT Technology Review. (Coverage) (Link)
2022-04: Internet users are 'poisoning' their personal data in the fight against..., Le Monde. (Interview) (Link)
2021-06: Got the same name as a serial killer? Google might think you're the same person, Vox. (Interview) (Link)
2021-05: Facebook and Others Should Pay Us for Our Data. Here's One Way, Bloomberg. (Coverage) (Link)
2021-03: How to poison the data that Big Tech use to surveil you, MIT Technology Review. (Interview) (Link)
2021-02: Your data is a weapon that can help change corporate behavior, Fortune. (Interview) (Link)
2020-07: Is it time for Netflix subscribers to go on strike?, Quartz. (Interview) (Link)
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Last updated: 2025-08-29

2018-03: YouTube May Add to the Burdens of Humble Wikipedia, New York Times. (Interview) (Link)