

CURRICULUM VITAE

Nicholas M. Vincent

nickvincent@u.northwestern.edu | www.nickmvincent.com

RESEARCH AREAS

Human-computer interaction, Human-centered machine learning, Social computing

EDUCATION

Northwestern University (Evanston, IL)

2017 – Present

- Doctor of Philosophy in Technology and Social Behavior (joint program in Computer Science and Communication: <https://tsb.northwestern.edu>)
- Adviser: Brent Hecht, Ph.D.

University of California, Los Angeles (Los Angeles, CA)

2012-2016

- Bachelor of Science in Electrical Engineering
 - GPA: 3.78/4.00 (magna cum laude)
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PUBLICATIONS

PEER-REVIEWED CONFERENCE PAPERS

[CSCW 2021]

Vincent N. and Hecht, B. Can “Conscious Data Contribution” Help Users to Exert “Data Leverage” Against Technology Companies? To appear in *CSCW 2021 / PACM Computer-Supported Cooperative Work and Social Computing*

[CSCW 2021]

Vincent N. and Hecht, B. A Deeper Investigation of the Importance of Wikipedia Links to Search Engine Results. To appear in *CSCW 2021 / PACM Computer-Supported Cooperative Work and Social Computing*

[CHI 2021]

Saha, K., Liu, Y., **Vincent, N.**, Chowdhury, F.A., Neves, L., Shah, N., and Bos, M. 2021. AdverTiming Matters: Examining User Ad Consumption for Effective Ad Allocations on Social

Media. To appear in *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*.

[FAccT 2021]

Vincent, N., Li, H., Tilly, N., Chancellor, S., and Hecht, B. 2021.

Data Leverage: A Framework for Empowering the Public in its Relationship with Technology Companies. To appear in *Proceedings of the 2021 Conference on Fairness, Accountability, and Transparency*.

[CSCW 2019]

Li, H. *, **Vincent, N.** *, Tsai, J., Kaye, J., and Hecht, B. 2019.

How Do People Change Their Technology Use in Protest?: Understanding “Protest Users”. In *Proceedings of the 2019 Computer-Supported Cooperative Work and Social Computing (CSCW’2019 / PACM)*. * indicates equal contributions.

[TheWebConf 2019]

Vincent, N., Hecht, B., and Sen, S. 2019.

“Data Strikes”: Evaluating the Effectiveness of New Forms of Collective Action Against Technology Platforms. In *Proceedings of The Web Conference 2019*.

[ICWSM 2019]

Vincent, N., Johnson, I., Sheehan, P., and Hecht, B. 2019.

Measuring the Importance of User-Generated Content to Search Engines. In *Proceedings of AAAI ICWSM 2019*.

[CSCW 2018]

Foong, E., **Vincent, N.**, Hecht, B., and Gerber, E. 2018.

Women (Still) Ask For Less: Gender Differences in Wage-Setting and Occupation in an Online Labor Marketplace. In *CSCW 2018 / PACM Computer-Supported Cooperative Work and Social Computing*.

[CHI 2018]

Vincent, N., Johnson, I., and Hecht, B. 2018.

Examining Wikipedia with a Broader Lens: Quantifying the Value of Wikipedia's Relationships with Other Large-Scale Online Communities. In *ACM Conference on Human Factors in Computing Systems 2018*. * Received a Best Paper award (Top 1% of submissions)

WORKSHOP PAPERS

[Collective Intelligence 2020]

Vincent, N. and Hecht, B. 2020.

Can “Conscious Data Contribution” Help Users to Exert “Data Leverage” Against Technology Companies? In *ACM Collective Intelligence 2020*.

[WikiWorkshop 2020]

Vincent, N., & Hecht, B. 2020.

A Deeper Investigation of the Importance of Wikipedia Links to the Success of Search Engines. In *WikiWorkshop 2020*.

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

Stier, N., **Vincent, N.**, Liebeskind, D. and Scalzo, F. 2015. Deep learning of tissue fate features in acute ischemic stroke. In *IEEE Bioinformatics and Biomedicine (BIBM), 2015 (pp. 1316-1321)*. IEEE.

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

Vincent, N., Stier, N., Yu, S., Liebeskind, D.S., Wang, D.J. and Scalzo, F. 2015. Detection of hyperperfusion on arterial spin labeling using deep learning. In *IEEE Bioinformatics and Biomedicine (BIBM), 2015 (pp. 1322-1327)*. IEEE.

PREPRINT PAPERS

Vincent, N., Li, Y., Zha, R. and Hecht, B. 2019. Mapping the Potential and Pitfalls of "Data Dividends" as a Means of Sharing the Profits of Artificial Intelligence. arXiv preprint arXiv:1912.00757.

PROFESSIONAL EXPERIENCE

Research Intern at Snap Inc. in Los Angeles, CA.

March 2020 – June 2020

- Conducted research with the Computational Social Science team

Cloud Programming Specialist at Cloudbakers in Chicago, IL.

September 2016 – June 2017

- Designed and built custom full-stack web applications for mid-market businesses

Naval Research Intern at Space and Naval Warfare Systems Command in San Diego, CA.

June 2015 – August 2015 and June 2016 – August 2016

- Acoustic signal processing research

Software Engineer Intern at Cisco Systems in San Jose, CA.

June 2014 – September 2014

- Wrote integration tests for a security product's REST API and supported the software build process through automation

Cross Functional Intern at Cisco Systems in San Jose, CA.

June 2013 – September 2013

- Developed internal software for the Intellectual Assets Protection team
- Analyzed company-wide workflow and suggested changes to protect intellectual assets

TEACHING EXPERIENCE

Teaching Assistant at Northwestern University

September 2020 – December 2020

- Teaching assistant for Statistics and Statistical Programming

Peer Learning Facilitator at UCLA's Academic Advancement Program

September 2014 – June 2015

- Led learning sessions and provided mentoring to students in UCLA's Academic Advancement Program taking differential equations and multivariable calculus
 - UCLA's Academic Advancement Program is a long-standing diversity and equity program focused on supporting historically underrepresented undergraduate students (<https://www.aap.ucla.edu>)
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ACADEMIC SERVICE

California Data Dividends Initiative Working Group

Sep 2019 – Present

- Helped coordinate and contribute to efforts to prepare a report on “data dividends”
- See more here: <https://www.datadividends.org/>

Artificial Intelligence Journal Club Leadership at Northwestern University

April 2019 – Present

- Served as one of three leaders of the Artificial Intelligence Journal Club, a Ph.D. student group that meets weekly to discuss papers from across artificial intelligence and machine learning.
- See more here: <https://aijcnu.github.io/>

Computer Science Ph.D. Advisory Council at Northwestern University

September 2018 – December 2018

- Served on CSPAC, a student organization meant to foster a community of Computer Science Ph.D. students at Northwestern University and to give this community a voice in the Department (<https://cspac.cs.northwestern.edu>)
- See more here: <https://cspac.cs.northwestern.edu/>

InfoSocial Graduate Student Conference Co-Chair

Summer 2018 - Summer 2019

- Served as one of two co-chairs for the InfoSocial Graduate Student Conference. As a co-chair, I worked to organize the conference, which included papers sessions, panels with faculty and community organizations, and networking opportunities.
- InfoSocial is “a student-run conference dedicated to showcasing interdisciplinary graduate student research examining the role of technology in contemporary society”
- See more here: <https://infosocial.soc.northwestern.edu>

Undergraduate Research Mentoring

2017 and 2018

- Mentored a variety of undergraduates doing research in the People, Space, and Algorithms Research Group at Northwestern University: Patrick Sheehan (one quarter: resulted in a publication); Ramish Zaidi (one quarter); Alan Li (three quarters); Renee Zha (one quarter); Neil Vakharia (one quarter).
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AWARDS

- NSF-GRFP 2018 Honorable Mention
 - Northwestern University 2019 Presidential Fellowship Finalist
 - Best Paper Award (top 1% of submissions) at CHI 2018 for “Examining Wikipedia with a Broader Lens: Quantifying the Value of Wikipedia's Relationships with Other Large-Scale Online Communities.”
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SKILLS

I work regularly with: Python, JavaScript, machine learning, recommender systems, web development

I have experience with: R, MATLAB, Java, C++, signal processing, causal inference, mobile development