

Personal Information

Residence	San Francisco, CA
Website	kentranz.github.io
Research Portfolio	Google Scholar

Work Experience

2021–Now	Policy Associate at Acumen, LLC
2021	Data Operations Manager at Public Health Institute
2020	Adjunct Professor at University of San Francisco
2018–2020	Researcher at Canadian Mental Health Association
2016	Graduate Student Researcher at University of Waterloo
2015–2016	Information System Analyst at FPT Software
2014–2015	Manufacturing Supervisor at Applied Medical Resources Corp.
Before 2014	Student Staff at Western Washington University Intern at Smithsonian Institution

Education

2020	PhD Public Health & Health Systems from University of Waterloo Specialization: Health Informatics
2014	MS Bioengineering with <u>Honors</u> from California Polytechnic State University - San Luis Obispo
2014	MBA with <u>Honors</u> from California Polytechnic State University - San Luis Obispo
2012	BS Biology & Mathematics from Western Washington University

Journal Publications

- J7. N. Jalali, **N.K. Tran**, A. Sen, and P.P. Morita. Identifying the socioeconomic, demographic, and political determinants of social mobility and their effects on COVID-19 cases and deaths: evidence from U.S. counties. *JMIR Infodemiology*, 2022. (in press)
- J6. G. Geri, L. Ferrer, **N.K. Tran**, L.A. Celi, M. Jamme, J. Lee, and A. Vieillard-Baron. Cardio-pulmonary-renal interactions in ICU patients. Role of mechanical ventilation, venous congestion and perfusion deficit on worsening of renal function: Insights from the MIMIC-III database. *Journal of Critical Care*, 2021. [\[full-text\]](#)
- J5. M. Gardiner, A. DeMuy, and **N.K. Tran**. Here4HealthCare: A response to the emerging mental health crisis of the frontline healthcare workforce. *Canadian Journal of Community Mental Health*, 2021. [\[full-text\]](#)
- J4. **N. Tran**, J.W. Poss, C. Perlman, and J.P. Hirdes. Case-mix classification for mental health care in community settings: A scoping review. *Health Services Insights*, 12, 2019. [\[full-text\]](#)
- J3. I.E.R. Waudby-Smith, **N. Tran**, J. Dubin and J. Lee. Sentiment in nursing notes as an indicator of out-of-hospital mortality in intensive care patients. *PloS One*, 2018. [\[full-text\]](#)
- J2. B.Y. Kim, A. Sharafoddini, **N. Tran**, E. Wen, and J. Lee. Consumer mobile apps for potential drug-drug interaction check: Systematic review and content analysis using the mobile app rating scale (MARS). *JMIR mHealth and uHealth*, 2018. [\[full-text\]](#)
- J1. **N. Tran** and J. Lee. Online reviews as health data: Examining the association between availability of health care services and patient star ratings exemplified by the Yelp academic dataset. *JMIR Public Health and Surveillance*, 2017. [\[full-text\]](#)

Conference Papers

- C1. **N. Tran** and J. Lee. Using multiple sentiment dimensions of nursing notes to predict mortality in the intensive care unit. *Proceedings of the IEEE-EMBS International Conference on Biomedical and Health Informatics*, 2018. [\[full-text\]](#)

Peer-Reviewed Abstracts

- A4. **N. Tran** and C. Perlman. Utility of machine learning techniques for predicting psychiatric readmissions. *Annual Scientific Symposium of the Canadian Academy of Psychiatric Epidemiology*, 2019.
- A3. G. Geri, L. Ferrer, **N. Tran**, M. Jamme, J. Lee, and A. Vieillard-Baron. Impact of mechanical ventilation setting on the occurrence of acute kidney injury in ICU patients: insights from the MIMIC-III database. *Congrès Réanimation de la Société de Réanimation de Langue Française (SRLF)*, 2019. [\[full-text\]](#)
- A2. B.Y. Kim, A. Sharafoddini, **N. Tran**, E. Wen, and J. Lee. A review of the accuracy and comprehensiveness of the pharmaceutical information within drug to drug interaction mobile applications. *Pharmacy Research Day at University of Waterloo*, 2018. [\[full-text\]](#)
- A1. **N. Tran** and B. Miner. Decision making in phenotypic plasticity response to predatory crabs by marine snails. *Western Washington University Scholars Week Conference*, 2012. (Best Poster Award)

Theses

- T2. **N. Tran**. Predicting resource use of community mental health services at the transition from inpatient psychiatry (PhD thesis). *University of Waterloo*, 2020. [\[full-text\]](#)
- T1. **N. Tran**. The effect of fiber depth on estimation of peripheral nerve fiber diameter using group delay and simulated annealing optimization (Master's thesis). *California Polytechnic State University - San Luis Obispo*, 2014. [\[full-text\]](#)

Invited Presentations

- P7. **N.K. Tran**. Learning Health System with Data Science. *Data Science Seminar at University of San Francisco*. February 19, 2021.
- P6. **N.K. Tran**. Research in practice (moderator). *Big Data & AI Toronto*. June 12, 2019.
- P5. **N.K. Tran**. Introduction to machine learning. *interRAI Canada GROUPIes Meeting*. December 18, 2019.
- P4. **N.K. Tran**. Effects of flexible assertive community treatment teams on inpatient psychiatric readmission. *Executive Meeting of Canadian Mental Health Association - Waterloo Wellington*. August 7, 2019.
- P3. **N.K. Tran**. Predicting resource use of community mental health services at the transition from inpatient psychiatry. *October Ethics Committee Meeting of Canadian Mental Health Association - Waterloo Wellington*. October 29, 2018.
- P2. B.Y.B. Kim and **N.K. Tran**. Primer on reviewing mobile apps. *Health Data Science Lab at University of Waterloo*, 2017.
- P1. **N.K. Tran**. Yelp Data as Health Data. *Health Data Science Lab at University of Waterloo*. October 27, 2016.

Peer Reviewer

2022 Journal of the American Medical Informatics Association
2017–2021 Journal of Medical Internet Research
2020 PLoS ONE

2020 JMIR Mental Health
2018 JMIR Medical Informatics

Funding History (Total Awarded \approx \$236,000)

2019 **Research Assistantship** from University of Waterloo
8,160 CAD, awarded but declined due to exceeding limit of concurrent awards

2018 **Travel Award** from University of Waterloo
800 CAD

2017 **Graduate Experience Award** from University of Waterloo
2,348 CAD

2016–2020 **Ontario Trillium Scholarship** from Government of Ontario, Canada
160,000 CAD

2016 **Research Assistantship** from University of Waterloo
7,479 CAD

2016 **International Doctoral Student Award** from University of Waterloo
47,000 CAD approx., awarded but declined due to exceeding limit of concurrent awards

2013–2014 **Out-of-State Tuition Waiver Award** from California Polytechnic State University - San Luis Obispo
10,000 USD approx.

2011 **Undergraduate Research Grant** from Western Washington University
350 USD

Teaching

2020 **Instructor**, University of San Francisco
MSDS 597: Data Management

2018 **Volunteer Mentor**, Canada Learning Code
Introductory programming workshops in HTML/CSS

2017 **Volunteer Mentor**, Canada Learning Code
Introductory programming workshops in Python

2017 **Teaching Assistant**, University of Waterloo
HLTH 473/619: Research Methods in Health Informatics

2011-2012 **Teaching Assistant**, Western Washington University
BIOL 205 Lab: Introduction to Cellular & Molecular Biology