Bianca N.Y. Kang

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Education

Carnegie Mellon University *Aug 2024 – Present*
Ph.D. in Societal Computing

- Advisor: Professor Kathleen M. Carley
- **Select coursework:** Computational Modeling of Complex Socio-Technical Systems, Intertextuality, Dynamic Network Analysis

Nanyang Technological University *Jan 2018 – Feb 2020*
M.A. in Psychology (Research)

- Advisor: Professor Ho Moon-Ho Ringo
- Thesis: A quantitative exploration of repeated advice-seeking on Reddit's r/relationships
- **Select coursework:** Independent study module on advanced statistical methods (e.g., multilevel modeling), agent-based modeling

National University of Singapore *Aug 2012 – Jul 2016*
B.Soc.Sci (Hons with Distinction) in Psychology + University Scholars Programme

- Thesis: Procedural hypnosis in gastroscopy procedures

Experience

Senior Analyst (Information) *Aug 2021 – Jul 2024*
Analyst (Information) *Feb 2020 – Aug 2021*
Defence Science and Technology Agency

- Computational social science research on social media topics, also worked on multiple collaborations (e.g., CMU CS, NUS CNM).

Intern (Information) *May 2019 – Aug 2019*
Defence Science and Technology Agency

Research Assistant (Psychology Division + Nanyang Business School) *Jul 2016 – Jan 2018*
Nanyang Technological University

- Psychometrics research (e.g., factor analysis, structural equation modeling) on large multi-year datasets.

Intern (Defence Psychology Division) *May 2015 – Jul 2015*
Ministry of Defence, Singapore

Research Assistant (Department of Psychology) *Nov 2014 – May 2016*
National University of Singapore

- Statistical analysis for Ministry of Social and Family Development nationwide intervention study.

Publications

- **Kang, B.N.Y.**, Ho, M.H.R., & Jaidka, K. (2025). User features and gendered patterns in repeat online advice-seeking behavior. *Journal of Quantitative Description: Digital Media, 5.*
- Ho, M.H.R., Uy, M. A., **Kang, B.N.Y.**, & Chan, K. Y. (2018). Impact of Entrepreneurship Training on Entrepreneurial Efficacy and Alertness among Adolescent Youth. *Frontiers in Education, 3.*
- Chan, K.Y., Ho, M.H.R., Kennedy, J., Uy, M., **Kang, B.N.Y.**, Chernyshenko, O., & Yu, T. (2017). Who Wants to Be an Intrapreneur? Relations between Employees' Entrepreneurial, Professional, and Leadership Career Motivations and Intrapreneurial Motivation in Organizations. *Frontiers In Psychology, 8.*

Chapters

- **Kang, B.N.Y.** & Uy. M. (2020). An Examination of Entrepreneurial, Professional and Leadership (EPL) Career Aspirations among Adolescent Youth. Book chapter in *Entrepreneurship-professionalism-leadership: A multidimensional framework for human capital and career development in the 21st century.*

Conference Presentations

- **Oral**: **Kang B.N.Y.** & Carley, K.M. (2025). A man by any other name: a mixed-methods study of recontextualization in fanfiction. Fan Studies Network North America, Online, *submitted as an abstract.*
- **Poster**: **Kang B.N.Y.** (2024). Capturing Differences in Character Representations Between Communities: An Initial Study with Fandom. SBP-BRiMS, Pittsburgh, *submitted as a working paper.*
- **Poster**: **Kang B.N.Y.** & Ho, M.H.R. (2019). Do I stay? Exploring factors related to repeated advice seeking on a relationship advice forum. IC2S2, Amsterdam, *submitted as an abstract.*
- **Oral**: Ho, M.H.R., Uy, M.A., **Kang, B.N.Y.**, Tan, L.T.S., & Chan, K.Y. (2017). Impact of entrepreneurship training on entrepreneurial alertness and efficacy. ACERE, Melbourne, *submitted as a full paper.*

Technical Reports

- Ng, L.H.X., **Kang, B.N.Y.**, & Carley, K.M. (2025). *Center for the Computational Analysis of Social and Organizational Systems.* AuraSight: Generating Realistic Social Media Data.

Awards

Defence Science and Technology Agency Postgraduate Scholarship *2024-present*
- Full funding for the Ph.D.

Nanyang Technological University Research Scholarship *2018-2020*
- Full funding for the MA (Research).

Faculty of Arts and Social Sciences Dean's List, National University of Singapore *2012-2016*
- AY 2012/13 Semester 1, AY 2013/14 Semester 1, AY 2014/15 Semester 2.

Teaching

Teaching Assistant, CASOS Summer Institute, Carnegie Mellon University: Tutorials on semantic networks, victimhood, ego networks, and network comparisons (Summer 2025).

Guest lecturer, Psychology Division, Nanyang Technological University: *An Introduction to Text Analysis* for Advanced Quantitative Methods, Fall 2021.

TA during MA (Research): Fundamentals of Social Science Research, Research Design and Data Analysis in Psychology, Psychological Testing.

Service

Reviewer: Computational and Mathematical Organization Theory (2025-present).

Internship mentor: Mentored an undergraduate intern for a 2023 summer research project *Analyzing narrative shifts on Reddit*, Defence Science and Technology Agency.