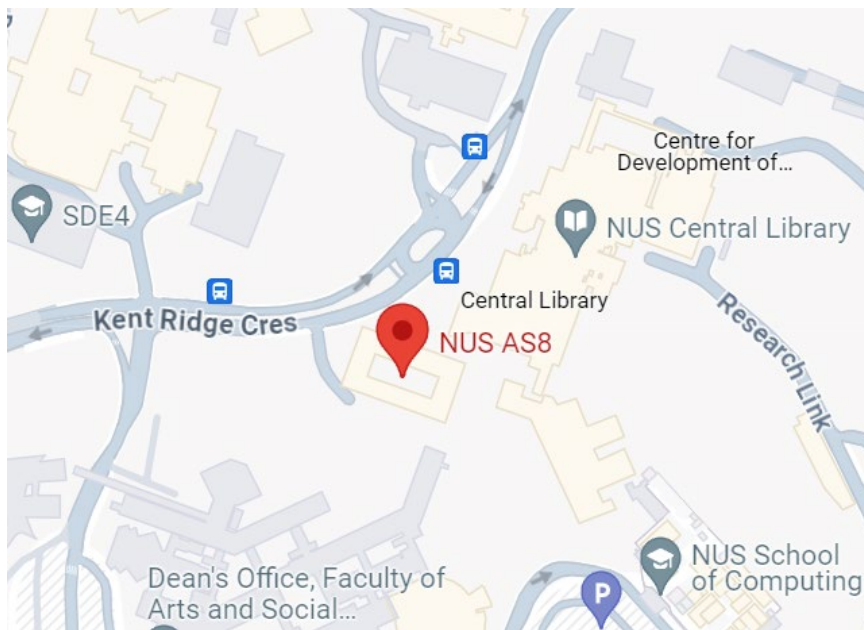# A Computational Turn in Journalism:
Opportunities and Challenges in a Cross-Disciplinary Field

18 June 2024 - Faculty of Arts and Social Science, National University of Singapore

ICA Preconference Program

Venue: NUS AS8 building, 10 Kent Ridge Crescent, Singapore 119260 (Google Maps)
*indicates remote presentation.

The AS8 building is conveniently located next to the NUS Central Library. The sessions will take place in two rooms: 04-04 and 04-01. They are both located on the fourth floor, and accessible by elevators and escalators.

Beverages and Snacks
8:30 AM – 9:00 AM Outside Room AS8/04-04

Welcome Remarks and Keynote Lecture 1
9:00 AM – 10:15 AM Room AS8/04-04

Keynote Speaker: Prof. Magdalena Wojcieszak, Professor, Department of Communication, University of California, Davis

Session 1A: Local News
10:15 AM – 12:00 PM at Room AS8/04-04
(Moderator: Shangyuan Wu)

1. News localness and the consumption of digital local news (2017-2021)
   Alvin Zhou (Hubbard School of Journalism & Mass Communication, University of Minnesota)

2. Assessing the Quality and Community Coverage of Local News Using Computational Methods
   Damon Kiesow (University of Missouri School of Journalism)

3. Using Computational Techniques to Effectively Assess the "Place" in Local Journalism
   Matthew Weber (Department of Communication, Rutgers University)

4. When the Devil is in the Sample: Benchmarking Data Sources to Analyse African News Content Computationally
   Dani Madrid-Morales (School of Journalism, Media and Communication, The University of Sheffield)

5. *Hard News and Softened Propaganda: the Effect of Chinese Mainstream Media's Political Vlogs Through User Engagement
   Wang Huiyi (School of Journalism and Communication, Renmin University of China)

Session 1B: Data and Journalism
10:15 AM – 12:00 PM Room AS8/04-01
(Moderator: Yilang Peng)

1. "Three cases and there's a pattern": dialectical relationship between anecdote and numbers in data journalism
   Ma Ningyuan (Moody College of Communication, University of Texas at Austin)

2. Research on the Current Situation of Data Journalism Education in China Based on the Empirical Analysis of 50 Universities in China
   Ling Tao (Anqing Normal University)

3. Hues of Victory: Using Computer Vision to Examine Skin Color's Influence on Electoral Success
   Silvia Angelica Teliz Martinez (Annenberg School for Communication, University of Pennsylvania)

4. Negotiating between the meaningfulness and meaninglessness of audience metrics for journalists
   Pinja Päivänen (Department of Language and Communication Studies, University of Jyväskylä)

Lunch
12:00 PM – 1:15 PM Outside Room AS8/04-04

Session 2A: AI and Journalism 1
1:15 PM – 3:00 PM Room AS8/04-04
(Moderator: Thorsten Quandt)

1. LabelGenius - GPT-Powered media-text Labeler: A Tool for Dynamic and Flexible Labeling with GPT Models for media-text Classification
   Huang Jiacheng (Hubbard School of Journalism & Mass Communication, University of Minnesota

2. Automated Content Analysis of Bilingual Content Using Generative AI: Opportunities and Challenges
   Fang Kecheng (School of Journalism and Communication, The Chinese University of Hong Kong)

3. Fine-Tuning disinformation detection between journalist and machine: Introducing a human-in-the-loop framework for conceptualizing artificial intelligence-based detection strategies against disinformation campaigns in journalism practice
   Johanna Klapproth (Department of Communication, University of Münster, Germany)

4. ChatGPT, Can You Write This News Article?: Diffusion of Artificial Intelligence in Small and Local Indonesian Newsrooms
   Yearry Panji Setianto (Faculty of Communication, Universitas Multimedia Nusantara)

5. *The value of generative AI in making news reels: An explorative study on NewsReel application
   Zhou Jiawen (School of Journalism and Communication, Shanghai International Studies University)

Session 2B: AI and Journalism II
1:15 PM – 3:00 PM in Room AS8/04-01
(Moderator: Yilang Peng)

1. Management of Automation: Examining U.S. News Organizations – Adaptation to AI Innovation
   Vy Luong (University of Missouri School of Journalism)

2. An updated scoping review of automated journalism scholarship
   Michelle Bartleman (Department of Communication, University of Ottawa)

3. Enhancing Newsroom Efficiency: AI-Based Filtering and Summarization of Press Releases
   Mate Koczka and Anuska Banerjee (School of Media, Heritage, and Culture, Newcastle University)

4. Charting the global development of algorithm-driven journalism: A systematic literature review of research trends and the North-South research divide
   Aynur Sarısakaloğlu (Department of Media Studies, Technische Universität Ilmenau)

5. Ad hoc media: New forms of media-like social communication and their detection via automated methods of data collection and analysis
   Svetlana S.Bodrunova (St. Petersburg State University)

6. *Online human-robot interaction: an information ecology perspective on the public opinion impact of social bots in reversal news
   Liang Wenhui (School of Literature and Journalism, Sichuan University)

Beverages and Snacks
3:00 PM – 3:15 PM Outside Room AS8/04-04

Session 3A: Social Media and News
3:15 PM – 5:00 PM in Room AS8/04-04
(Moderator: Thorsten Quandt)

1. What occurs as #news on TikTok? A Computational Approach
   Jonathan Hendrickx (Journalism Studies Center, University of Vienna)

2. Navigating cross-platform crisis coverage: Temporal patterns of topic dynamics in the information flow between news media and social media platforms
   Johanna Klapproth (Department of Communication, University of Münster, Germany)

3. Lower Quantity, Higher Quality: Auditing Algorithmic News Curation on Twitter/X
   Huang Shengchun (Annenberg School for Communication, University of Pennsylvania)

4. *Entwined Realms: Examining Media Contexts and News Choice
   Sakshi Bhalla (University of Illinois, Urbana-Champaign)

5. *A multidimensional empirical study on the communication effect of "data news"
   Cai Yiru (Tiangong University)

Session 3B: Journalism – Past and Future
3:15 PM – 5:00 PM in Room AS8/04-01
(Moderator: Tian Yang)

1. Forecasting Future News Deserts
   Liu Mingxuan (Spiegel Research Center Medill School of Journalism, Media, Integrated Marketing Communications, Northwestern University)

2. Digital Turn Without Digital Methods? Mapping the Journey of Journalism Studies
   Fan Yangliu (Institute for Media and Communication, Free University of Berlin)

3. Constructing the collective memory as another role normative role of journalism in the age of AI
   Xin Frida Qi (University of Missouri School of Journalism)

4. The Application of Virtual Reality and Augmented Reality Technologies in News Transmission
   Luo Xueli (Communication University of China)

5. *Unlocking Journalistic Imagination: A New Methodological Approach for Studying Computational Change in Journalism
   Tanja Aitamurto (*University of Illinois Chicago*)

Keynote Lecture 2 and Closing Remarks
5:15 PM – 6:30 PM in Room AS8/04-04

<u>Keynote Speaker:</u> Prof. Edson Tandoc, Professor, Wee Kim Wee School of Communication and Information, Nanyang Technological University