VIVEK K. SINGH

4 Huntington Street,
New Brunswick, NJ 08901
Phone: 848 932 7588
vivek.k.singh@rutgers.edu
⌂ **http://sites.comminfo.rutgers.edu/vsingh**
🌐 **https://scholar.google.com/citations?user=Ef1hJ8IAAAAJ**
https://github.com/Behavioral-Informatics-Lab

APPOINTMENTS

RUTGERS UNIVERSITY	**New Brunswick, NJ**
Associate Professor of Information Science (with tenure),	**Jul 2020- current**
Member of Graduate Faculty, Department of Computer Science (CS),	
Director, Behavioral Informatics Lab.	
Assistant Professor of Information Science	Sep 2014- Jun 2020

- Research Interests: Human-centered Data Science, Responsible AI, Social Computing
- Teaching Areas: Data Analytics, Social Informatics, and Foundations of Data Science.
- Steering committee member for a new Rutgers undergraduate major in Data Science.

MASSACHUSSETS INSTITUTE OF TECHNOLOGY	**Cambridge, MA**
Visiting Scholar (Institute of Data, Systems, and Society)	Sep 2021 – Aug 2023
Research Affiliate	Mar 2019 - Mar 2020
Visiting Professor	Sep 2014 – Aug 2018

- Collaborative research in human-centered data science.

PROFESSIONAL PREPARATION

MASSACHUSSETS INSTITUTE OF TECHNOLOGY	**Cambridge, MA**
Post-Doctoral Associate, Human Dynamics Group, MIT Media Lab	Sep 2012-Aug 2014

- Research Focus: Understanding human behavior using social, behavioral, 'big' data.
  (Advisor: Professor Alex 'Sandy' Pentland)
- Research Interests: Social Reality Mining, Computational Social Science, Personal Data Analytics.

UNIVERSITY OF CALIFORNIA, IRVINE	**Irvine, CA**
Ph.D., Computer Science, Donald Bren School of Information and Computer Science,	2007-2012

- Thesis Topic: "Personalized Situation Recognition" (Advisor: Professor Ramesh Jain)
- Research Interests: Personalized Decision Systems, Multimedia Systems, Social Media.

NATIONAL UNIVERSITY OF SINGAPORE	**Singapore**
Master of Computing, Computer Science	2003-2005
Bachelor of Engineering, Computer Engineering	1998-2002

- Fully sponsored (tuition, room, and board) for undergraduate studies under the Singapore Airlines- Neptune Orient Lines scholarship. (One of ~30 candidates selected from over 8,000 applicants nation-wide in India)

AWARDS AND ACHIEVEMENTS

- ***Best Paper Award from the ACM Web Science Conference, 2024*** for the paper "Accuracy and Fairness for Web-Based Content Analysis under Temporal Shifts and Delayed Labeling". Awarded to one paper by the conference.
- ***The iSchools Doctoral Dissertation Award (Runner Up) won by advisee, 2024*** for dissertation titled "Design Intervention to Reduce Online Incivility". Winner: Jinkyung Katie Park, Dissertation advisor: Vivek Singh. This award recognizes the best doctoral dissertations in the field of information science during 2022-2023.
- ***Best Paper Award from IEEE Intelligent Systems, 2022*** for the paper "Intelligent Pandemic Surveillance via Privacy-Preserving Crowdsensing". Awarded to one paper in a year by the journal.
- ***ASIS&T SIG-Social Media Best Paper Award, 2022*** for the article "'Not all my friends are friends': Audience-group-based nudges for managing location privacy" published in JASIST. Award given to the best social media-related paper in information science in the 2021-2022 period.
- ***Top cited article award for 2020-2021*** (and again for ***2021-2022),*** Journal of the Association for Information Science & Technology (JASIST), for article "Detecting fake news stories via multimodal analysis". This award recognizes the papers from the journal with most citations in the preceding year.
- ***ASIS&T SIG of the Year 2018-2019***. Won by SIG-Social Media. I was the *Chair-Elect* during this period.
- **Honorable Mention (Social Integration category), The Data For Refugees Challenge, 2018.** This event aimed to identify solutions for the problems of Syrian refugees in Turkey. Organized by Türk Telekom, Boğaziçi University and TÜBİTAK, with support of UNICEF, UNHCR and the International Organization for Migration, 2018.
- ***Distinguished Achievement in Research*** Award, Department of Library and Information Science, Rutgers University, 2015.
- ***"Rising Star"*** **selection by ACM SIG Multimedia, 2015**. One of the 12 early career researchers selected worldwide in the year.
- ***1st prize*** in ***Datathon*** on **"Big Data for Social Good", 2013** organized by O_2, MIT, Telefonica and Open Data Institute, at Campus Party, London.
- ***"Emerging Leader in Multimedia Research", 2009*** by *IBM Research Labs, NY.* One of 10 selected world-wide in 2009.
- ***Best Paper Award, 2009*** at ACM Workshop on Social Media (WSM 2009) co-located with ACM Multimedia Conference.
- ***Best Student Paper, 2009*** at IEEE Workshop on Situation Management (SIMA 2009), co-located with IEEE Military Communications conference.

RESEARCH GRANTS

Total Funding: Over $1.4 Million.

EXTERNAL: FUNDED

- National Science Foundation, RAPID: Countering Language Biases in COVID-19 Search Auto-Completes, Role: PI, Co-PI: Pamela Valera, 2020-2023. $198,985.00.
- National Science Foundation, EAGER: SaTC: Early-Stage Interdisciplinary Collaboration: Fair and Accurate Information Quality Assessment Algorithm, Role: PI, Co-PI: Lauren Feldman, 2019-2023. $315,946.00. (Including Research Experience for Undergraduates supplement)
- National Science Foundation, RAPID: Privacy-Preserving Crowdsensing of COVID-19 and its Sociological and Epidemiological Implications, Role: Co-PI, PI: Jaideep Vaidya, 2020-2023. $199,597.00.
- National Science Foundation, Collaborative Research: Predictive Intelligence for Pandemic Prevention, Theme 4: Social and Behavioral Obstacles and Supports, Role: PI. 2021-2022. $25,814.00

- National Science Foundation, Student Travel Support for the 26th ACM International Conference on Multimedia 2018 (ACM MM 2018), Role: (Single) PI, 2018-2019. $15,543.00.
- National Science Foundation, CRII: CHS: Cyberbullying Detection Using Content and Social Network Analysis, Role: (Single) PI, 2015-2019. $188,348.00. (Including Research Experience for Undergraduates supplement)
- Google Research Award, Predicting Search Behavior Using Physical and Online Explorations, Role: Co-PI, PI: Chirag Shah, 2016, $62,813.00.

INTERNAL: FUNDED
- IMPACT-NJ: Improved Policy-based Advancements for Chatbot Technology in New Jersey. Role: PI, Co-PI: Yonaira Rivera. NJ State Policy Lab, Rutgers University. 08/01/2024-07/31/2025, $25,000.00.
- Multilingual Health Equity in Large Language Models: Enhancing Accuracy and Reliability for Diverse User Interactions. Role: PI, Co-PI: Yonaira Rivera. Grants for Team Based Research, School of Communication & Information, Rutgers University. 08/01/2024-07/31/2025, $16,876.00.
- Cyber-Allying: Countering Cyberbullying using Bystander Interventions suggested by Generative AI. Role: PI, Rutgers, Co-PI: Linda Reddy. Rutgers CASS - Cyberinfrastructure and AI for Science and Society Grants. 01/15/2024-07/15/2024, $25,000.00.
- Modeling Well-being Using Digital Traces and AI. Role: PI, Rutgers Office for Research, 07/01/2022 – 06/30/2022, $15,000.00.
- Can Digital Health Technologies and Data Science Transform Health Professional Practice and Communication, and Ensure Health Equity? Role: Co-PI, PI: M Matsaganis, Other Co-PI: Lisa Mikesell. Rutgers School of Communication and Information Scholarly Futures, 1/1/2022-12/31/2022, $50,000.00
- Rutgers Center For COVID-19 Response and Pandemic Preparedness Research Grant, AI, Pandemics, and Mental Health, Role: PI, Co-PIs: Vince Silenzio, Sara Pixley, Fred Roberts, David Pennock, Roseanne Dobkin, and Kostas Bekris, 2019-2021, $26,000.00.
- Rutgers Office for Research and Economic Development (ORED) Interdisciplinary Research Group (IRG), Human Centered Design with Communities for Individual and Population Health. Role: Co-PI (one of 27 Co-PIs), PIs: Mark Aakhus and Sarah Allred, 2018-2019, $200,000.00.
- Rutgers Community Design for Health and Wellness Interdisciplinary Research Group Funding, Towards Fairness in Mental Health Prediction Apps, Role: Co-PI, PI: Kaitlin Costello, 2019-2019, $18,000.00.
- Rutgers SC&I Grants for Individual Faculty Research, Gender Bias in the Voices of Smart Home Devices, Role: PI, 2019-2019, $4,000.00.
- Rutgers SC&I Research Development Grant, Reimagining Mobile Phones as Cooperation Catalysts, Role: (Single) PI, 2018-2018. $3,000.00.
- Rutgers SC&I Research Development Grant, Designing Nudges for Mobile Information Privacy, Role: (Single) PI, 2017-2017. $3,400.00.
- Rutgers SC&I Research Development Grant, Real-time Diversity Analytics, Role: (Single) PI, 2016-2016. $3,500.00.
- SCI Research Development Grant, Predicting User Well-being via Socio-Mobile data, Role: (Single) PI, 2015-2015. $7,500.00.

Post-Doctoral Research

– **Post-Doctoral Associate Research**
- Dr. Chidansh Bhatt (Ph.D., CS, National University of Singapore). 2020-2021. Research Area: Algorithmic Fairness. Now at IBM TJ Watson Research Lab, USA.

PhD Level Research

– **Dissertation Committee Chair (Primary Advisor) Completed:**
- Dr. Ghassan Bati (Rutgers ECE); defended: Fall 2018. Dissertation Title: "*Phoneotypic* Modeling of Human Behaviors and Propensities." Now Assistant Professor at Umm Al-Qura University, Saudi Arabia.
- Dr. Isha Ghosh (Rutgers LIS); defended: Summer 2020. Dissertation Title: "Social Interventions to Reduce the Privacy Paradox." Now at Intel, USA.
- Jinkyung Katie Park (Rutgers LIS); defended: Spring 2022. Dissertation Title: "A Design Intervention to Reduce Online Incivility." Now Assistant Professor at Clemson University, USA.
- Jamal Alasadi (Rutgers ECE); defended: Fall 2022. Dissertation Title: "Fairness in Multimedia Information Processing." Studied on leave from University of Thiqar, Iraq.
- Abdulaziz Almuzaini (Rutgers CS); defended: Spring 2024. Dissertation Title: "Fair and Accurate Machine Learning in Dynamic and Multi-domain Settings". (Co-advised with David Pennock.) Now Assistant Professor at the Islamic University of Madinah, Saudi Arabia.

– **Dissertation Committee Chair (Primary Advisor) In Progress:**
- Eiman Ahmed (Rutgers LIS). Passed Qualifying Exam: Fall 2023.
- Arcadio Matos (Rutgers LIS). Passed Qualifying Exam: Fall 2023.
- Yehuda Perry (Rutgers LIS). Passed Qualifying Exam: Fall 2023.
- Liyang Xue (Rutgers LIS). Passed Qualifying Exam: Spring 2024.
- Haein Kong (Rutgers, LIS). Passed Qualifying Exam: Fall 2024.

– **Dissertation Committee Member:**
- Omkar Kulkarni (SUNY Albany, CS): PhD proposal defended: Summer 2023.
- Mousa Ahmadi (New Jersey Institute of Technology, Information Systems): PhD thesis defended: Summer 2021.
- Manasa Rath (Rutgers LIS): PhD thesis defended: Summer 2020.
- Teis Kristensen (Rutgers Communication): PhD thesis defended: Summer 2019.
- Eun Baik (Rutgers LIS): PhD thesis defended: Summer 2019.
- Dongho Choi (Rutgers LIS): PhD thesis defended: Fall 2017.

– **Qualifying Exam Committee Member:**
- Soumik Mandal (Rutgers LIS): passed qualifying exam: Fall 2018.
- Jiqun Liu (Rutgers LIS): passed qualifying exam: Fall 2018.

– **Independent Study Supervision and Research Assistants**
- Abdulaziz Almuzaini (Rutgers CS): Independent Study, 2019- 2021.
- Eiman Ahmed (Rutgers LIS): Independent Study and Research Assistant on an NSF grant, 2021 - ongoing
- Arcadio Matos (Rutgers LIS): Independent Study and Research Assistant on an NSF grant, 2021- ongoing
- Julie Aromi (Rutgers LIS): Research Assistant on an NSF grant, 2020-2022

- Jinkyung (Katie) Park (Rutgers LIS): Volunteer Research Assistant, 2019.
- Diana Floegel (Rutgers LIS): Research Assistant on an NSF grant, 2019.
- Jiqun Liu (Rutgers LIS): Independent Study, 2017.
- Soumik Mandal (Rutgers LIS): Independent Study, 2017.
- Souvick Ghosh (Rutgers LIS): Research Assistant on an NSF grant, 2016.
- Dongho Choi (Rutgers LIS): Research Assistant on a Google grant, 2016.
- Manasa Rath (Rutgers LIS): Independent Study, 2016.
- Qianjia Huang (Rutgers LIS): Volunteer Research Assistant, 2015.

Masters-Level Research

- **MS thesis supervision**
  - Saket Hegde (MS thesis, Rutgers ECE): defended Fall 2017.
- **MS thesis committee member:**
  - Ashish Tripathi (U. Winnipeg, CS): defended Fall 2015.
  - Abukari Yakubu (U. Winnipeg, CS): defended Fall 2015.
  - Qianjia Huang (U. Winnipeg, CS): defended Fall 2014.

- **Other master's level research**
  - Vignesh Krishnan, Research Assistant, 2024
  - Monjil Mehta, Research Assistant, 2024
  - Saubhagya Joshi, MI Independent Study, 2023
  - Rahul Ellezhuthil: Research Assistant on an NSF grant, 2022
  - Aniket Sanap: Research Assistant on an NSF grant, 2022
  - Srujan Dendukuri: Research Assistant on an NSF grant, 2022
  - Jenil Jain: Research Assistant on an NSF grant, 2022
  - Ramanathan Arunachalam: Research Assistant on an NSF grant, 2021
  - Katherine Lee: Research Assistant on an NSF grant, 2021
  - Ishaan Singh: Research Assistant on an NSF grant, 2020
  - Ritesh Sawant: Research Assistant on an NSF grant, 2020
  - Gautam Sikka: Research Assistant on an NSF grant, 2019
  - Darshan Songara: Research Assistant on an NSF grant, 2018
  - Raj Inamdar: Research Assistant on an NSF grant, 2018
  - Erick Rivera (Independent Study, Rutgers MI), 2018.
  - Vinayak Nayak (Independent Study, Rutgers Master of Business and Science), 2018.
  - Amirtha Sridharan (Independent Study, Rutgers Master of Business and Science), 2018.
  - Joshua Rochette (Independent Study, Rutgers MI), 2017.
  - Rushil Goyal (Independent Study, Rutgers Master of Business and Science), 2017.
  - Isha Ghosh (Capstone Project, Rutgers Master of Communication and Information Studies), 2016.
  - Priya Subramanian (Independent Study, Rutgers Master of Business and Science), 2015.
  - Christin Jose: Research Assistant on an NSF grant, 2015
  - Yaguang Liu: Research Assistant on an NSF grant, 2016

Undergraduate Researchers

- Sai Kuchibhatla, Research Assistant, 2024
- Alan Wu (Rutgers): Research Assistant, 2022.
- Nitin Gowda (Rutgers): Research Assistant, 2022.

- Jacob Roy (Rutgers): Research Assistant, 2021.
- Yisel Breton (Rutgers): Research Assistant (NSF Research Experience for Undergraduates), 2020.
- Aidan Andrucyk (Rutgers): Volunteer Research Assistant. 2020.
- Connor Hofenbitzer (Rutgers): Research Assistant (NSF Research Experience for Undergraduates), 2018-2019.
- Rishab Chawla (Rutgers): Research Assistant (NSF Research Experience for Undergraduates), 2018.
- Akansha Atrey (University at Albany): Volunteer Research Assistant, 2017-2018.
- Devin Soni (Rutgers): Research Assistant (NSF Research Experience for Undergraduates), 2016-2018.
- Shenghao Wu (Columbia): Volunteer Research Assistant, 2016-2018.
- Arushi Jain (Indian Institute of Technology, Kanpur): Volunteer Research Assistant, 2016.
- Suril Dalal (Rutgers): ITI Independent Study, 2015.
- Sneha Dasari (Rutgers): ITI Independent Study, 2015.
- Ariana Blake (Rutgers): ITI Independent Study, 2015.
- Rishav Raj Agarwal (Indian Institute of Technology, Kanpur): Summer research intern, 2015.

High School Student Researcher
- Aarushi Srivastava (South Brunswick High School, Monmouth Junction, NJ): Research assistant 2017-2018.
- Leila Qadri, Research Assistant, 2024.

TEACHING

Teaching at Rutgers University: **2014- current**
- Classes taught:
- Ph.D. level
  - Understanding, Building, and Designing Social Media
    - Spring 2017 (cross-listed with MI).
  - Quantitative Research Methods
    - Fall 2020, Fall 2023
- Master of Information (MI)
  - Data Analytics for Information Professionals
    - Fall 2014, Spring 2015, Fall 2015 (cross-listed with ITI).
    - Fall 2016, Spring 2017, Fall 2017, Summer 2018, Fall 2018, Spring 2019, Summer 2019, Fall 2019, Spring 2020, Spring 2021, Summer 2021, Spring 2022, Summer 2022, Fall 2022 (not cross-listed), Spring 2023, Summer 2023, Fall 2023
  - Understanding, Building, and Designing Social Media
    - Spring 2017, Spring 2020 (cross-listed with Ph.D.).
  - Foundations of Data Science
    - Fall 2016 (cross-listed with ITI).
- Information Technology and Informatics (ITI, undergraduate level)
  - Data in Context
    - Fall 2022
  - Data Analytics
    - Fall 2014, Spring 2015, Fall 2015 (cross-listed with MI)

- Fall 2017, Fall 2018, Spring 2019, Summer 2019, Fall 2020, Summer 2021, Spring 2022, Spring 2023, Summer 2023 (not cross-listed).
        - Foundations of Data Science
            - Fall 2016
        - Social Informatics
            - Fall 2015.
    - Course material developed/revised significantly for:
        - Understanding, Building, and Designing Social Media (significant changes made)
        - Fundamentals of Data Science (new course)
        - Data in Context (new course)
        - Fundamentals of Big Data Curation and Management (significant revisions made, name changed)

Teaching at Institute of Technical Education, Singapore   **2002-2006**
- Four years of full-time teaching experience as a Lecturer. Classes taught (at post-secondary education level) included Web Programming, Multimedia Production, and Database Systems. Duties included developing the curriculum, delivering lectures, leading laboratory sessions, and mentoring students on various internal and external projects.

SERVICE

- **Professional Organizations:**
    - *Chair*, ASIS&T (Association for Information Science & Technology) Special Interest Group, SIG-Social Media, 2019-2020. I was Past *Chair* during 2020-2021, and *Chair-Elect* during 2018- 2019.
- **Conference/Workshop Organization:**
    - *Program Co-Chair*, ACM (Association of Computational Machinery), International Conference on Multimedia, 2024. This role involves managing the selection process of 4000+ full paper submissions.
    - *Program Co-Chair*, ACM Web Science Conference, 2025.
    - *Co-Editor, ACM CSCW, aka Proceedings of the ACM- HCI (CSCW), 2023.*
    - *Program Co-Chair*, ACM International Conference on Multimedia Retrieval, 2022
    - *Co-organizer*, NSF Predictive Intelligence for Pandemic Prevention (PIPP) "Human" Workshop, 2021
    - *Tutorials and Workshops Chair*, ACM Web Science Conference, 2021
    - *Posters Co-chair*: ACM CSCW conference, 2020.
    - *Co-organizer*: ASIS&T Symposium on Social Informatics, 2020.
    - *Grand Challenge Co-Chair:* ACM Multimedia Conference, 2019.
    - *Program Committee Co-Chair*: IEEE (Institute of Electrical and Electronics Engineers) International Conference on Multimedia Big Data, 2019.
    - *Best paper selection committee*: ACM CSCW (Conference on Computer-Supported Cooperative Work and Social Computing), 2018.
    - *Student Travel Grant Co-Chair*: ACM Multimedia Conference, 2018.
    - *Doctoral Consortium Co-Chair*: ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR), 2018.
    - *Tutorials Co-Chair*: ACM Multimedia Conference, 2017.

- – *Panels Co-Chair*: ACM/IEE International Conference on Digital Libraries, 2016; ACM International Conference on Multimedia, 2017.
  - – *Co-organizer:* Temporal Networks, Human Dynamics and Social Physics NetSci'14 Symposium, Berkeley, California, June 2014.
  - – *General Co-Chair:* First ACM Workshop on "Personal Data Meets Distributed Multimedia", co-located with ACM Multimedia Conference, Oct 2013, Barcelona, Spain.
- **Journal Editing:**
  - – Editorial Board Member: Multimedia Systems journal. July 2019- ongoing.
  - – Journal *Guest Co-Editor:* IEEE Multimedia Special Issue: *New Signals in Multimedia Systems and Applications*, 2018.
  - – Journal *Guest Co-Editor:* IEEE Transactions on Internet Technology, Special Issue: Foundations of Social Computing: Dec 2016.
  - – Journal *Guest Co-Editor:* IEEE Internet Computing Special Issue: Physical-Cyber-Social Computing, 2015.
- **Program Committee membership:**
  - – ACM CSCW Conference (Associate Chair), 2016, 2017, 2018, 2019, 2020, 2022
  - – ACM CHI Conference (Associate Chair), 2019, 2021.
  - – iConference, the annual conference of information schools, 2019.
  - – ACM Multimedia Conference, 2013, 2014, 2015, 2016, 2017, 2018.
  - – IEEE International Conference on Multimedia and Expo, 2015, 2016.
  - – ACM International Conference on Multimedia Retrieval, 2016, 2019.
  - – ACM Web Science Conference, 2016.
- **Reviewing for Journals:**
  - – Nature Communications
  - – Proceedings of the National Academy of Science
  - – Journal of the Association for Information Science and Technology (JASIST)
  - – Journal of Medical Internet Research
  - – Science Advances
  - – Proceedings of the IEEE
  - – IEEE Transactions on Multimedia
  - – ACM Transactions on Multimedia Computing, Communications and Applications
  - – Multimedia Tools and Applications
  - – IEEE Transactions on Services Computing
  - – Cambridge Network Science
  - – Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies
  - – Proceedings of the ACM on Human Computer Interaction (CSCW)
  - – Human Computer Interaction Journal
- **Reviewing for research grant proposals:**
  - – Panel reviewer for National Science Foundation: 2015, 2016, 2017, 2018, 2020, 2023
  - – External Reviewer for the Natural Sciences and Engineering Research Council of Canada, 2016-2017.
  - – External Reviewer for U.S.-Israel Binational Science Foundation, 2015.
  - – External reviewer for the National Science Foundation: 2013, 2020.
- **Rutgers: Multi-school and university-wide committees**

- Steering Committee, Rutgers Undergraduate Programs in Data Science: 2020 – 2023.
- Program and Curriculum Committee, Rutgers Undergraduate Programs in Data Science: 2023 - current.
- Organizing Committee, Rutgers AI and Pandemic Working Group: 2020-2021.

- ***Rutgers School of Communication and Information (SC&I) committees***
  - Member, Dean's search committee, 2024.
  - Chair, SC&I Data Science Curriculum Development Committee, 2020 – 2022.
  - Faculty Secretary: 2018-2020.
  - Member, SC&I Research Development Committee: 2014-2015, 2020-2021.

- ***Rutgers Department of Library and Information Science committees***
  - PhD area coordinator, 2022-2024.
  - Faculty mentor for three tenure-track faculty members, 2021- ongoing.
  - Chair, Faculty Search Committee (Fair and Responsible Data Science), 2023- 2024.
  - Chair, Faculty Search Committee, 2020-2021.
  - Member, Faculty Search Committee, 2019-2020.
  - Coordinator: Data Science concentration for the MI program: 2018-2019.
  - Member, Department Search Committee, 2018-2019.
  - Member, ALA accreditation task force: Standards team: 2017-2018.
  - Member: Ph.D. curriculum review committee: 2017-2018.
  - Chair, LIS Research Development Committee and Coordinator- LIS Speaker Series: 2015-2016.
  - Member, LIS Research Development Committee: 2014-2015.

- ***Community Engagement***
  - Member, Congressman Gottheimer's New Jersey Anti-Bullying Task Force, 2020.
  - Invited Speaker: Highland Park High School, Highland Park, NJ. Introductory lecture to 200 high-school students on online privacy management and cyberbullying prevention, 2015.

PUBLICATIONS
Total Citations: 3800+
H-Index: 30+
(As per Google Scholar on Aug 31, 2024)

Authored Book
1. **Singh, V.K.,** & Jain, R*., Situation Recognition Using EventShop* (co-authored monograph), Springer, pp. 1-150, ISBN: 978-3-319-30535-6 / 3319305352 (Published: June 2016.)

Journal Articles: Published or Accepted[1,2,3]

1. Wang, G., **Singh, V.K.,** & Zhang, D. (2024), A Mixed-Methods Study of Wait Time Perception and Discrepancy in DiDi's Technology-Mediated Mobility System in China. *Proceedings of the ACM on Human-Computer Interaction*

---

[1] g indicates that the co-author was a *graduate* student or a post-doc who was supervised by Vivek Singh.
u indicates that the co-author was an *undergraduate* student who was supervised by Vivek Singh.
[2] Impact factor as obtained from Clarivate Journal Citation Reports, Sep 2024.
[3] H5 index as obtained from Google Scholar, Sep 2024.

(CSCW). (Accepted, in Press). Length: 25 pages. (Impact Factor: N/A—newly transitioned to journal format; H5 index: 81)

2. Joshi, S. ᵍ, Ha, E. ᵍ, Amaya, A., Mendoza, M., Rivera, Y., & **Singh, V. K.** (2024). Ensuring Accuracy and Equity: A Cross-Language Evaluation of Vaccination Information from ChatGPT and CDC. *JMIR formative research* (in press). (Impact Factor: 2.0; H5 index: 36)

3. Ahmed, E.ᵍ, Xue, L. ᵍ, Sanap, A. ᵍ, Kong, H. ᵍ, Matos, A. ᵍ, Silenzio, V., & **Singh, V. K.** (2023). Predicting Loneliness through Digital Footprints on Google and YouTube. *Electronics*, *12*(23), 4821. (Impact Factor: 2.6; H5 index: 116)

4. Valera, P., Carmona, D., **Singh, V.,** Malarkey, S., Baquerizo, H., & Smith, N. (2023). Understanding search autocompletes from the perspectives of English and Spanish speakers during the early months of the COVID-19 pandemic. *Journal of Community Psychology*. 2023;1–19 DOI: 10.1002/jcop.23013. (Impact Factor: 2.0; H5 index: 42)

5. Park, J.ᵍ, & **Singh, V. K.** (2022). How Background Images Impact Online Incivility. *Proceedings of the ACM on Human-Computer Interaction*, *6*(CSCW2), 1-23. (Impact Factor: N/A—newly transitioned to journal format; H5 index: 81)

6. Choi, D., Shah, C., & **Singh, V.** (2022). Investigating information seeking in physical and online environments with escape room and web search. *Journal of Information Science*, *48*(4), 570-583. (Impact Factor: 1.8; H5 index: 39)

7. Asif, H., Papakonstantinou, P., Shiau, S., **Singh, V.**, & Vaidya, J. (2022), Intelligent Pandemic Surveillance via Privacy-Preserving Crowdsensing. IEEE Intelligent Systems. July 2022, 88-96. (Impact Factor: 3.7, H5 index: 41) 🏆 [Best Paper Award]

8. Park, J. ᵍ, Arunachalam, R. ᵍ, Silenzio, V., & **Singh, V. K.** (2022). Fairness in Mobile Phone–Based Mental Health Assessment Algorithms: Exploratory Study. *JMIR formative research*, *6*(6), e34366. (Impact Factor: 2.0; H5 index: 36)

9. Ghosh, I. ᵍ, & **Singh, V.** (2022). "Not all my friends are friends": Audience-group-based nudges for managing location privacy. Journal of the Association for Information Science and Technology, 73(6), 797-810. (Impact Factor: 2.8; H5 index: 49) 🏆 [ASIS&T SIG-Social Media Best Paper Award]

10. **Singh, V. K.,** Ghosh, I.ᵍ, & Sonagara, D. ᵍ (2021). Detecting fake news stories via multimodal analysis. *Journal of the Association for Information Science and Technology*, *72*(1), 3-17. (Impact Factor: 2.8; H5 index: 49) 🏆 [Top Cited Article Award, 2021-2022]

11. Bati, G. F. ᵍ, & **Singh, V. K.** (2021). Altrumetrics: Inferring Altruism Propensity Based on Mobile Phone Use Patterns. *IEEE Transactions on Big Data*. 7 (2), 397-406. DOI: 10.1109/TBDATA.2018.2873346. Length: 11 pages. (Impact Factor: 7.5; H5 Index: 41)

12. Bati, G. F. ᵍ, & **Singh, V. K.** (2021). NADAL: A Neighbor-Aware Deep Learning Approach for Inferring Interpersonal Trust Using Smartphone Data. *Computers*, *10*(1), 3. (Impact Factor: 2.6; H5 index: 49)

13. **Singh, V. K.**, André, E., Boll, S., Hildebrandt, M., & Shamma, D. A. (2020). Legal and ethical challenges in multimedia research. *IEEE MultiMedia*, *27*(2), 46-54. (Impact Factor: 2.3; H5 index: 24)

14. **Singh, V.,** Chayko, M., Inamdar, R. ᵍ, & Floegel, D. ᵍ (2020). Female librarians and male computer programmers? Gender bias in occupational images on digital media platforms. *Journal of the Association for Information Science and Technology*, *71*(11), 1281-1294. (Impact Factor: 2.8; H5 index: 49)

15. Ghosh, I. ᵍ, & **Singh, V.** (2020). Phones, privacy, and predictions: A study of phone logged data to predict privacy attitudes of individuals. *Online Information Review*. 44(2), 483-502. DOI:10.1108/OIR-03-2018-0112DOI: https://doi.org/10.1108/OIR-03-2018-0112. Length: 20 pages. (Impact Factor: 3.1; H5 Index: 42)

16. Agarwal, R. R[g]., Lin, C. C., Chen, K. T., & **Singh, V. K.** (2018). Predicting financial trouble using call data—On social capital, phone logs, and financial trouble. *PLoS One*, *13*(2), e0191863 (Impact Factor: 2.9; H5 index: 225)

17. **Singh, V. K.,** Goyal, R. [g], & Wu, S. [u] (2018). Riskalyzer: Inferring Individual Risk-Taking Propensity Using Phone Metadata. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, *2*(1), 34. Length: 21 pages. (Impact Factor 3.6; H5 index: 58)

18. Soni, D. [u], & **Singh, V. K.** (2018). See No Evil, Hear No Evil: Audio-Visual-Textual Cyberbullying Detection. *Proceedings of the ACM on Human-Computer Interaction*, *2*(CSCW), 164. Length: 25 pages. (Impact Factor: N/A—newly transitioned to journal format; H5 index: 81)

19. Huang, Q. [g], **Singh, V. K.,** & Atrey, P. K. (2018). On cyberbullying incidents and underlying online social relationships. *Journal of Computational Social Science*, *1*(2), 241-260. https://doi.org/10.1007/s42001-018-0026-9. (Impact Factor: 2.0; H5 Index: 26)

20. Dong, X., Suhara, Y., Bozkaya, B., **Singh, V. K.**, Lepri, B., & Pentland, A. S. (2018). Social bridges in urban purchase behavior. *ACM Transactions on Intelligent Systems and Technology (TIST)*, *9*(3), 1-29. (Impact Factor: 7.2, H5 Index: 47)

21. **Singh, V. K.,** & Ghosh, I. [g] (2017). Inferring Individual Social Capital Automatically via Phone Logs. *Proceedings of the ACM on Human-Computer Interaction*, *1*(CSCW), 95. Length: 12 pages. (Impact Factor: N/A—newly transitioned to journal format; H5 index: 81)

22. **Singh, V. K.,** Fernandes, D., Kankanhalli, M., & Haenselmann, T. (2016). Decoupled Multicamera Sensing for Flexible View Generation. *Journal of Sensors, 501(*8137859), 1-13. (Impact Factor: 1.4, H5 Index: 45)

23. Almaatouq, A., Shmueli, E., Nouh, M., Alabdulkareem, A., **Singh, V. K.,** Alsaleh, M., Alarifi, A., Alfaris, A. & Pentland, A.S. (2016). If it looks like a spammer and behaves like a spammer, it must be a spammer: analysis and detection of microblogging spam accounts. *International Journal of Information Security*, *15*(5), 475-491. (Impact Factor: 2.4, H5 Index: 36)

24. **Singh, V. K.,** Bozkaya, B., & Pentland, A. (2015). Money Walks: Implicit Mobility Behavior and Financial Well-Being. *PloS one, 10*(8), e0136628. Length: 17 pages. (Impact Factor: 2.9; H5 index: 225)

25. de Montjoye, Y. A., Radaelli, L., **Singh, V. K.,** & Pentland, A. (2015). Unique in the shopping mall: On the reidentifiability of credit card metadata. *Science, 347*(6221), 536-539. (Impact Factor: 44.7, H5 Index: 409)

26. Shmueli, E., **Singh, V. K.,** Lepri, B., & Pentland, A. (2014). Sensing, understanding, and shaping social behavior. *IEEE Transactions on Computational Social Systems*, *1*(1), 22-34. (Impact Factor: 4.5; H5 Index: 66)

27. **Singh, V. K.,** Mani, A., & Pentland, A. (2014). Social Persuasion in Online and Physical Networks. *Proceedings of the IEEE, 102*(12), 1903-1910. (Impact Factor: 23.2, H5 Index: 107)

28. **Singh, V. K.,** Freeman, L., Lepri, B., & Pentland, A. S. (2013). Classifying spending behavior using socio-mobile data. *HUMAN, 2*(2), pp-99. Length: 13 pages. (Impact Factor: N/A, H5 Index: N/A)

29. **Singh, V. K.,** & Kankanhalli, M. S. (2009). Adversary aware surveillance systems. *IEEE Transactions on Information Forensics and Security*, *4*(3), 552-563. (Impact Factor: 6.3, H5 Index: 100)

30. **Singh, V. K.,** Pirsiavash, H., Rishabh, I., & Jain, R. (2009). Towards environment-to-environment (e2e) multimedia communication systems. *Multimedia Tools and Applications*, *44*(3), 361-388. (Impact Factor: 3.0, H5 Index: 105)

31. **Singh, V. K.,** Atrey, P. K., & Kankanhalli, M. S. (2008). Coopetitive multi-camera surveillance using model predictive control. *Machine Vision and applications*, *19*(5-6), 375-393. (Impact Factor: 2.4, H5 Index: 33)

Journal Guest Editorials

1. Cesar, P., **Singh, V.,** Jain, R., Sebe, N., & Oliver, N. (2018). (Guest editorial) New Signals in Multimedia Systems and Applications. *IEEE MultiMedia*, (1), 12-13. (Impact Factor: 2.3; H5 index: 24)

2. Chopra, A. K., Shmueli, E., & **Singh, V. K.** (2017). (Guest editorial) Introduction to the special issue on advances in social computing. *ACM Transactions on Internet Technology (TOIT)*, *17*(2), 11. DOI: https://doi.org/10.1145/3080258. Length: 2 pages. (Impact Factor: 3.9, H5 Index: 44)

3. Barnaghi, P., Sheth, A., **Singh, V.,** & Hauswirth, M. (2015). (Guest editorial) Physical-cyber-social computing: looking back, looking forward. *IEEE Internet Computing*, *19*(3), 7-11. (Impact Factor: 3.7, H5 Index: 38)

Journal Articles: Under Review

1. **Singh V.K.**, Valera, P., Singh, I. [g], Sawant, R. [g], & Breton, Y. [u], Language Disparities in Pandemic Information: Autocomplete Analysis of COVID-19 Searches in New York. Under review

2. Park, J. [g], **Singh V.,** & Wisniewski, P., Mental health impacts of early vaccine adoption. Current Landscape and Future Directions for Mental Health Conversational Agents (CAs) for Youth: Scoping Review. Under review

Book Chapters: Published

1. **Singh, V.** (2017). Situation recognition using multimodal data. In S-F Chang. (Ed.), *Frontiers of Multimedia Research* (pp. 159-189). San Rafael, CA: Association for Computing Machinery and Morgan & Claypool.

2. Srivastava, K. A., **Singh, V. K.,** & Bozkaya, B. (2015). Assessing financial well-being of merchants by analyzing behavioral patterns in historical transactions. In Bozkaya, B., & Singh, V. K. (Eds.) *Geo-Intelligence and Visualization through Big Data Trends* (pp. 76-93). Hershey, PA: IGI Global.

3. **Singh, V. K.,** Jain, R., & Kankanhalli, M. (2011). Mechanism design for incentivizing social media contributions. In Hoi, S.C.H., Luo, J., Boll, S., Xu, D, Jin, R., King, I. (Eds.), *Social media modeling and computing* (pp. 121-143). London, UK: Springer.

International Peer-Reviewed Conferences: Proceedings Published[4]

1. Almuzaini, A. A.[g], Pennock, D. M., & Singh, V. K. (2024, May). Accuracy and Fairness for Web-Based Content Analysis under Temporal Shifts and Delayed Labeling. In *Proceedings of the 16th ACM Web Science Conference* (pp. 268-278). (H5 Index: 34) 🏆 [Best Paper Award]

2. Joshi, S.[g], Ha, E. [g], Rivera, Y., & Singh, V.K. (2024). ChatGPT and Vaccine Hesitancy: A Comparison of English, Spanish, and French Responses Using a Validated Scale. *AMIA Summits on Translational Science Proceedings*, *2024*, 266. (H5 Index: 23)

3. Kulkarni, O., Mishra, A., Arora, S., **Singh, V. K.,** & Atrey, P. K. (2024, August). LivePics-24: A multi-person, multi-camera, multi-settings live photos dataset. In MIPR'24: IEEE International Conference on Multimedia Information Processing and Retrieval, San Jose, CA, USA. (H5 Index: 26)

---

[4] Please note that in computational disciplines, ``...papers in peer-reviewed conferences are accepted as high-quality scholarly articles.'' (1) Expert advisory: https://homes.cs.washington.edu/~mernst/advice/conf-vs-journal-uscis.pdf; (2) Computing Research Association (CRA) Advisory: http://cra.org/resources/best-practice-memos/evaluating-computer-scientists-and-engineers-for-promotion-and-tenure/. Conferences typically do not have impact factor. H-5 index scores for conference publications are included.

4. Almuzaini, A. A. ᵍ, Dendukuri, S. K. ᵍ, & **Singh, V. K.** (2023, August). Toward Fairness Across Skin Tones in Dermatological Image Processing. In *2023 IEEE 6th International Conference on Multimedia Information Processing and Retrieval (MIPR)* (pp. 1-7). IEEE. (H5 Index: 26)

5. Kulkarni, O. N., Arora, S., Mishra, A., **Singh, V. K.,** & Atrey, P. K. (2023, August). A Multi-stage Bias Reduction Framework for Eye Gaze Detection. In *2023 IEEE 6th International Conference on Multimedia Information Processing and Retrieval (MIPR)* (pp. 1-6). IEEE. (H5 Index: 26)

6. Park, J.ᵍ, Ellezhuthil, R. D. ᵍ, Isaac, J., Mergerson, C., Feldman, L., & **Singh, V.** (2023, April). Misinformation Detection Algorithms and Fairness across Political Ideologies: The Impact of Article Level Labeling. In *Proceedings of the 15th ACM Web Science Conference 2023* (pp. 107-116). (H5 Index: 34)

7. Park, J., Gracie, J., Alsoubai, A., Stringhini, G., **Singh, V.,** & Wisniewski, P. (2023, April). Towards Automated Detection of Risky Images Shared by Youth on Social Media. In *Companion Proceedings of the ACM Web Conference 2023* (pp. 1348-1357). (H5 Index: N/A)

8. Ray, I., Thuraisingham, B., Vaidya, J., Mehrotra, S., Atluri, V., Ray, I., ... & **Singh, V.** (2023, May). SAFE-PASS: Stewardship, Advocacy, Fairness and Empowerment in Privacy, Accountability, Security, and Safety for Vulnerable Groups. In *Proceedings of the 28th ACM Symposium on Access Control Models and Technologies* (pp. 145-155). (H5 Index: 16)

9. Almuzaini, A. ᵍ, Bhatt, C. ᵍ, Pennock, D., & **Singh, V.K.** (2022), "ABCinML: Anticipatory bias correction in machine learning applications. In *Proceedings of the 2022 ACM Conference on Fairness, Accountability, and Transparency* (pp. 1552-1560). (H5 Index: 93)

10. Beytia, P., Agarwal, P., Redi, M., & **Singh, V.K.** (2022), Visual gender biases in wikipedia: A systematic evaluation across the ten most spoken languages. In *Proceedings of the International AAAI Conference on Web and Social Media* (Vol. 16, pp. 43-54). (H5 Index: 56)

11. Park, J. ᵍ, Ellezhuthil, R. ᵍ, Arunachalam, R. ᵍ, Feldman, L., & Singh, V. (2022). Toward Fairness in Misinformation Detection Algorithms. In *Workshop Proceedings of the 16th International AAAI Conference on Web and Social Media. Retrieved from https://doi. org/10.36190*. (H5 Index: N/A)

12. Park, J. ᵍ, Ahmed, E. ᵍ, Asif, H. ᵍ, Vaidya, J., & **Singh, V. K.** (2022). Privacy Attitudes and COVID Symptom Tracking Apps: Understanding Active Boundary Management by Users. In International Conference on Information (pp. 332-346). Springer, Cham. (H5 Index: 18)

13. Kulkarni, O. N., Patil, V., **Singh, V. K.**, & Atrey, P. K. (2021). Accuracy and Fairness in Pupil Detection Algorithm. *In 2021 IEEE Seventh International Conference on Multimedia Big Data (BigMM) (pp. 17-24). IEEE.* (H5 Index: 22)

14. Houli, D. A.ᵍ, Radford, M. L., & **Singh, V. K.** (2021). "COVID19 is_": The Perpetuation of Coronavirus Conspiracy Theories via Google Autocomplete. *Proceedings of the Association for Information Science and Technology*, *58*(1), 218-229. (H5 Index: 19)

15. Roy, J.ᵘ, Bhatt, C.ᵍ, Chayko, M., & **Singh, V. K.** (2021). Gendered Sounds in Household Devices: Results from an Online Search Case Study. *Proceedings of the Association for Information Science and Technology*, *58*(1), 824-826. (H5 Index: 19)

16. Alasadi, J. ᵍ, Ramanathan, A. ᵍ, Atrey, P. & **Singh, V. K.** (2020). A Fairness-Aware Fusion Framework for Multimodal Cyberbullying Detection. *In Proceedings of the IEEE International Conference on Multimedia Big Data.* (H5 Index: 22)

17. Abdulaziz, A. ᵍ, & **Singh, V. K.** (2020). Balancing Fairness and Accuracy in Sentiment Detection Using Multiple Black-box Models. *In Proceedings of the 2nd ACM International Workshop on Fairness, Accountability, and Transparency, and Ethics in MultiMedia.* (H5 Index: N/A)

18. **Singh, V.,** & Hofenbitzer, C.[u] (2019). Fairness across network positions in cyberbullying detection algorithms. In *2019 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)* (pp. 557-559). IEEE. (H5 Index: 28)

19. Alasadi, J.[g], Al Hilli, A.[g], & **Singh, V.,** (2019). Toward Fairness in Face Matching Algorithms. (October 2019) In *Proceedings of the ACM Multimedia Workshop of Fairness, Accountability, and Transparency.* Length: 6 pages. (H5 Index: N/A)

20. Bati, G. F.[g], & **Singh, V. K**. (2018). "Trust Us": Mobile Phone Use Patterns Can Predict Individual Trust Propensity. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems* (p. 330). ACM. Length: 14 pages. (H5 index: 129)

21. Ghosh, I.[g], & **Singh, V. K.** (2018). Modeling social support scores using phone use patterns. *Proceedings of the Association for Information Science and Technology*, *55*(1), 133-142. (H5 Index: 19)

22. Soni, D.[u], & **Singh, V. K.** (2018). Time Reveals All Wounds: Modeling Temporal Dynamics of Cyberbullying Sessions. In *Proceedings of the Eleventh International AAAI Conference on Web and Social Media* (pp. 684-687) (H5 Index: 56)

23. **Singh, V. K.,** & Long, T.[g] (2018). Automatic assessment of mental health using phone metadata. *Proceedings of the Association for Information Science and Technology*, *55*(1), 450-459. (H5 Index: 19)

24. **Singh, V. K.,** Atrey, A.[u], & Hegde, S.[g] (2017). Do individuals smile more in diverse social company?: Studying smiles and diversity via social media photos. In *Proceedings of the 25th ACM international conference on Multimedia* (pp. 1818-1827). ACM. (H5 Index: 101)

25. **Singh, V. K.,** Ghosh, S.[g], & Jose, C.[g] (2017). Toward multimodal cyberbullying detection. In *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems* (pp. 2090-2099). ACM. (H5 index: N/A)

26. **Singh, V. K.,** Hegde, S.[g], & Atrey, A.[u] (2017). Towards measuring fine-grained diversity using social media photographs. In *Eleventh International AAAI Conference on Web and Social Media*. (pp. 668-671). (H5 Index: 56)

27. **Singh, V. K.,** & Jain, A.[u] (2017). Toward harmonizing self-reported and logged social data for understanding human behavior. In *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems* (pp. 2233-2238). ACM. (H5 index: 129)

28. **Singh, V. K.,** Radford, M. L., Huang, Q.[g], & Furrer, S. (2017). They basically like destroyed the school one day: On Newer App Features and Cyberbullying in Schools. In *Proceedings of the 2017 ACM Conference on Computer Supported Cooperative Work and Social Computing* (pp. 1210-1216). ACM. (H5 Index: 81)

29. **Singh, V. K.,** & Agarwal, R. R.[u] (2016). Cooperative phoneotypes: exploring phone-based behavioral markers of cooperation. In *Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing* (pp. 646-657). ACM. (H5 Index: 58)

30. Choi, D., Shah, C., & **Singh, V.** (2016). Probing the interconnections between geo-exploration and information exploration behavior. In *Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing* (pp. 1170-1175). ACM. (H5 Index: 58)

31. **Singh, V. K.,** Huang, Q.[g], & Atrey, P. K. (2016). Cyberbullying detection using probabilistic socio-textual information fusion. In *Proceedings of the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* (pp. 884-887). IEEE Press. (H5 Index: 28)

32. Almaatouq, A., Alabdulkareem, A., Nouh, M., Shmueli, E., Alsaleh, M., **Singh, V. K.,** Alarifi, A., Alfaris, A., & Pentland, A. S. (2014). Twitter: who gets caught? Observed trends in social micro-blogging spam. In *Proceedings of the 2014 ACM conference on Web science* (pp. 33-41). ACM. (H5 Index: 34)

33. Huang, Q.[g], **Singh, V. K.,** & Atrey, P. K. (2014). Cyber bullying detection using social and textual analysis. In *Proceedings of the 3rd International Workshop on Socially-Aware Multimedia* (pp. 3-6). ACM. (H5 Index: N/A)

34. Pongpaichet, S., **Singh, V. K.,** Jain, R., & Pentland, A. P. (2013). Situation fencing: making geo-fencing personal and dynamic. In *Workshop on Personal Data Meets Distributed Multimedia* (pp. 3-10). ACM. (H5 Index: N/A)

35. **Singh, V. K.,** Freeman, L., Lepri, B., & Pentland, A. S. (2013). Predicting spending behavior using socio-mobile features. In *2013 International Conference on Social Computing* (pp. 174-179). IEEE. (H5 Index: N/A)

36. Gao, M., **Singh, V. K.,** & Jain, R. (2012). Eventshop: from heterogeneous web streams to personalized situation detection and control. In *Proceedings of the 4th Annual ACM Web Science Conference* (pp. 105-108). ACM. (H5 Index: 34)

37. **Singh, V. K.,** Gao, M., & Jain, R. (2012). Situation recognition: an evolving problem for heterogeneous dynamic big multimedia data. In *Proceedings of the 20th ACM international conference on Multimedia* (pp. 1209-1218). ACM. (H5 Index: 101)

38. R. Jain, **Singh, V. K.,** & Gao, M. (2011). Social Life Networks. In *Proceedings of the WWW Workshop on Social Media Engagement* (pp.1-8). Hyderabad, India. (H5 Index: N/A)

39. **Singh, V. K.,** Luo, J., Joshi, D., Lei, P., Das, M., & Stubler, P. (2011). Reliving on demand: a total viewer experience. In *Proceedings of the 19th ACM international conference on Multimedia* (pp. 333-342). ACM. (H5 Index: 101)

40. **Singh, V. K.,** Gao, M., & Jain, R. (2010). Social pixels: genesis and evaluation. In *Proceedings of the international conference on Multimedia* (pp. 481-490). ACM. (H5 Index: 101)

41. **Singh, V. K.,** & Jain, R. (2010). Structural analysis of the emerging event-web. In *Proceedings of the 19th international conference on World wide web* (pp. 1183-1184). ACM. (H5 Index: 112)

42. **Singh, V. K.,** & Jain, R. (2009). Situation based control for cyber-physical environments. In *Proceedings of the 2009 IEEE Military Communications Conference* (pp. 1-7). IEEE. 🏆 (Best Student Paper for the Workshop/Special Session on Situation Management) (H5 Index: 20)

43. **Singh, V. K.,** Jain, R., & Kankanhalli, M. S. (2009). Motivating contributors in social media networks. In *Proceedings of the first SIGMM workshop on Social media* (pp. 11-18). ACM. 🏆 (Best Paper Award) (H5 Index: N/A)

44. Paleari, M. L., **Singh, V.,** Huet, B., & Jain, R. (2009). Toward environment-to-environment (E2E) affective sensitive communication systems. In *Proceedings of the first ACM international workshop on Multimedia technologies for distance learning* (pp. 19-26). ACM. (H5 Index: N/A)

45. Saini, M. K., **Singh, V. K.,** Jain, R. C., & Kankanhalli, M. S. (2008). Multimodal observation systems. In *Proceedings of the 16th ACM international conference on Multimedia* (pp. 933-936). ACM. (H5 Index: 101)

46. **Singh, V. K.,** Pirsiavash, H., Rishabh, I., & Jain, R. (2008). Towards environment-to-environment (e2e) multimedia communication systems. In *Proceedings of the 1st ACM international workshop on Semantic ambient media experiences* (pp. 31-40). ACM. (H5 Index: N/A)

47. **Singh, V. K.,** & Kankanhalli, M. S. (2007). Towards adversary aware surveillance systems. In *2007 IEEE International Conference on Multimedia and Expo* (pp. 2038-2041). IEEE. (H5 Index: 46)

48. **Singh, V. K.,** Atrey, P. K., & Kankanhalli, M. S. (2007). Coopetitive multimedia surveillance. In *International Conference on Multimedia Modeling* (pp. 343-352). Springer, Berlin, Heidelberg. (H5 index: 26)

49. Ram, S., Ramakrishnan, K. R., Atrey, P. K., **Singh, V. K.,** & Kankanhalli, M. S. (2006). A design methodology for selection and placement of sensors in multimedia surveillance systems. In *Proceedings of the 4th ACM international workshop on Video surveillance and sensor networks* (pp. 121-130). ACM. (H5 index: N/A)

50. **Singh, V. K.,** & Atrey, P. K. (2005). Coopetitive visual surveillance using model predictive control. In *Proceedings of the third ACM international workshop on Video surveillance & sensor networks* (pp. 149-158). ACM. (H5 Index: N/A)

PATENTS

1. Lou, J., Joshi, D., Stubler, P., Das, M., Lei, P. & **Singh, V.K.** *Method for Media Reliving Playback*, *U.S. Patent No. 8879890: Issued November 4, 2014.*

2. Lou, J., Joshi, D., Stubler, P., Das, M., Lei, P. & **Singh, V.K.** *Method for media reliving on demand*, *U.S. Patent No. US 908245: Issued July 14, 2015.*

INVITED TALKS

1. **Keynote Talk:** "Toward Fairer Multimodal information systems". NIST TrecVid TREC Video Retrieval (TRECVID) workshop, 2022.

2. **Invited (Keynote) Talk:** "Auditing and Controlling for Algorithmic Bias", *ACM International Workshop on Fairness, Accountability, Transparency and Ethics in Multimedia*, co-located with ACM Multimedia Conference, 2020.

3. **Keynote Address:** "Sensing, Understanding, and Shaping Human Behavior", *ACM International Workshop on Computational Models of Social Interactions: Human-Computer-Media Communication*, co-located with ACM Multimedia Conference, Brisbane, Australia, 2015.

4. Invited Talk: *"Behavioral Data: A Torch, Magnifying Lens, and Mirror for Bias".* NYU Center for Urban Sensing and Progress Seminar Series, 2024, New York, 2024.

5. "Bridging Divides: Navigating the Human-AI and Multilingual Gaps in the LLM Era". MIT Connection Science Seminar, 2024.

6. "Behavioral Informatics," In *Center for Informatics Research in Science and Scholarship Seminar,* University of Illinois, Urbana Champaign, IL, 2019.

7. "Sensing and Shaping Human Behavior," In *Building the Future: New Technological Frontiers in Cities Conference*, Princeton University, Princeton, NJ, 2019.

8. "Behavioral Informatics," In *Connective Media Seminar*, CornellTech, New York City, NY, 2019.

9. "Behavioral Informatics," In *Human Dynamics Group Seminar*, MIT Media Lab, Cambridge, MA, 2017.

10. "Sensing, Understanding, and Shaping Human Behavior," In *5th International Workshop on Cyber-Physical Cloud Computing*, National Institute on Standards and Technology, Gaithersburg, MD, 2015.

11. "Sensing, Understanding, and Shaping Human Behavior," In *Connective Media Seminar*, CornellTech, New York City, NY, 2015.

12. "Sensing, Understanding, and Shaping Human Behavior," In *Bay Area Multimedia Forum*, Stanford, CA, 2014.

MEDIA COVERAGE OF RESEARCH ACTIVITIES AND MEDIA MENTIONS

- The Indiapolis Star and Milwaukee Journal-Sentinel, Chatbot Ice Breaker by David Zimmer, 2024.
- NorthJersey.com, Your 'friendly AI assistant' has arrived to your search bar. Here's how chatbots work, https://www.northjersey.com/story/news/2024/05/07/meta-snapchat-ai-what-is-a-chatbot/73512818007/, 2024

- BNB Breaking, Rutgers Study Uses Google, YouTube Data to Predict Loneliness, Aims to Lower Suicide Risk, https://bnnbreaking.com/world/us/rutgers-study-uses-google-youtube-data-to-predict-loneliness-aims-to-lower-suicide-risk, 2024

- MedicalXpress, Predicting loneliness through online digital footprints. https://medicalxpress.com/news/2024-03-loneliness-online-digital-footprints.html, 2024

- TechXplore, Researchers find flaws in using source reputation for training automatic misinformation detection algorithms. https://techxplore.com/news/2023-05-flaws-source-reputation-automatic-misinformation.html, 2023.

- Best Life. 6 Surprising Ways AI Can Improve Your Life After 50, https://bestlifeonline.com/ways-to-use-ai-after-50/, 2023.

- Medical Xpress, Google search predictions found to increase pandemic fears, anxiety for Spanish speakers, https://medicalxpress.com/news/2023-04-google-pandemic-anxiety-spanish-speakers.html, 2023.

- Occupational Gender Bias Prevalent in Online Images, Rutgers Study Finds: American Libraries Magazine, ACM Tech News, Hindustan Times, Yahoo Lifestyle, Daily Targum, 2020.

- **New York Times**, With a Few Bits of Data, Researchers Identify 'Anonymous' People, http://bits.blogs.nytimes.com/2015/01/29/with-a-few-bits-of-data-researchers-identify-anonymous-people/, 2015.

- BBC News, Mobile location data 'present anonymity risk, http://www.bbc.com/news/science-environment-21923360, 2015.

- Wall Street Journal, Metadata Can Expose Person's Identity Even Without Name, http://www.wsj.com/articles/metadata-can-expose-persons-identity-even-when-name-isnt-1422558349, 2015.

- Nature News, People identified through credit-card use alone, 2015. http://www.nature.com/news/people-identified-through-credit-card-use-alone-1.16817

- Harvard Business Review, There's No Such Thing as Anonymous Data, https://hbr.org/2015/02/theres-no-such-thing-as-anonymous-data, 2015.

- More coverage: MIT Technology Review, PBS, Le Monde (FR), Die Zeit (DE), Die Spiegel (DE), El Pais (ES), RT, The Hill, Telegraph (UK), Scientific American, New Scientist, Five Thirty Eight, Gizmodo, Fast Company, Computer World, ZDNet, Tom's guide, Popular Mechanics, Motherboard, US News, NBC, CNBC, Huffington Post (US), IEEE Spectrum, Phys.org, Radio Canada (FR), Le Vif (FR), Slate (FR), Trends-Tendance (FR), Science et vie (FR).

- Rutgers CommInfo Public Relations, **Appellate Court Cites Vivek Singh's Study in Decision Against the NSA,** https://comminfo.rutgers.edu/news/appellate-court-cites-vivek-singhs-study-in-decision-against-the-nsa.html; Link to the court judgement (page 9), 2015.

- ACM Tech News, University Receives Grant to Prevent Cyberbullying, 2015. http://cacm.acm.org/news/185388-university-receives-grant-to-prevent-cyberbullying/fulltext.