

KUNAL RELIA

Ph.D. Candidate - New York University

[updated: Oct 05, 2021]
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EDUCATION

- 2017 - **Ph.D., Computer Science**,
Present NYU Tandon School of Engineering, Brooklyn - USA.
Advisor: Julia Stoyanovich, Ph.D.
- 2016 **M.S., Computer Science**,
NYU Tandon School of Engineering, Brooklyn - USA.
- 2014 **B.E., Computer Engineering**,
Gujarat Technological University, Rajkot - India.

RESEARCH INTERESTS

Computational Social Choice, Algorithmic Fairness, Responsible Data Science.

PROFESSIONAL EXPERIENCE

Research

- Jun 2016 - **Research Assistant**, NYU Tandon School of Engineering, Brooklyn - USA.
- Present Progressing towards formalizing the contradistinction between diversity and representation.
Details on research projects: <https://kunalrelia.github.io/ResearchProjects>

Non-research

- Sep 2015 - **Team Lead/Analyst**, NYU Office of Graduate Admissions, Brooklyn - USA.
- May 2016 Led a team of 21 graduate assistants; cut application processing time by 15%, and augmented a transcript evaluation algorithm
- Sep 2015 - **Teaching Assistant**, NYU Tandon School of Engineering, Brooklyn - USA.
- Dec 2015 Assisted Prof. Viji Srinivasan (Computer Architecture 1)
- Jun 2010 - **Co-founder**, ReLife Pharma, Rajkot - India.
- Jan 2015 Co-founded a health care start-up manufacturing and marketing medicines in India
- Jul 2013 - **Software Developer Intern**, Johnson & Johnson Ltd., Rajkot - India.
- Jun 2014 Conceptualized and developed a claim management software capable of managing annual claims worth \$4.5M of company's 1000+ dealers

AWARDS

Invited NSF Grant (under submission), ideated and wrote the proposal: "Context-aware, Responsible, and Interpretable AI System and Integrated Health Records".

School of Engineering Fellowship - NYU Tandon, 2017.

Graduate Scholarship - NYU Tandon, 2015.

Academic Excellence Award - GTU, 2014.

PUBLICATIONS

[C] : conference; [J] : journal.

* : authors listed alphabetically.

- [J1*] Vishal Chakraborty, Theo Delemazure, Benny Kimelfeld, Phokion Kolaitis, **Kunal Relia**, and Julia Stoyanovich. “*Algorithmic Techniques for Necessary and Possible Winners.*” In ACM/IMS Transactions on Data Science (2021).
- [C5] **Kunal Relia**, Zhengyi Li, Stephanie H Cook, and Rumi Chunara. “*Race, Ethnicity and National Origin-based Discrimination in Social Media and Hate Crimes Across 100 U.S. Cities.*” Proceedings of the Thirteenth AAAI International Conference on Web and Social Media (ICWSM-2019).
Media: [Business Insider](#), [The Register](#), [VICE](#), [The Philadelphia Inquirer](#)
- [C4] Nabeel Abdur Rehman, **Kunal Relia**, and Rumi Chunara. “*Creating Full Individual-level Location Timelines from Sparse Social Media Data.*” ACM SIGSPATIAL GIS’18.
- [C3] **Kunal Relia**, Mohammad Akbari, Dustin Duncan, and Rumi Chunara. “*Socio-spatial Self-organizing Maps: Using Social Media to Assess Relevant Geographies for Exposure to Social Processes.*” Proceedings of the ACM on human-computer interaction 2, no. CSCW (2018).
- [C2] Mohammad Akbari, **Kunal Relia**, Anas Elghafari, and Rumi Chunara. “*From the User to the Medium: Neural Profiling Across Web Communities.*” Proceedings of the Twelfth AAAI International Conference on Web and Social Media (ICWSM-2018). (poster)
- [C1] Tom Huang, Anas Elghafari, **Kunal Relia**, and Rumi Chunara. “*High-resolution temporal representations of alcohol and tobacco behaviors from social media data.*” Proceedings of the ACM on human-computer interaction 1, no. CSCW (2017).

WORKING PAPERS

- [W2] **Kunal Relia**. “*Unfairness through Fairness: Mitigating Fairness Induced Disproportionality in Multiwinner Elections*”, under submission, 2021.
- [W1] **Kunal Relia**. “*DiRe Committee: Diversity and Representation Constraints in Multi-winner Elections*”, under submission, 2021.
Shorter version presented at the 8th International Workshop on Computational Social Choice (COMSOC) Poster Session, 2021.

MENTORING

2021 **Lauren Kirshenbaum**, NYU BS Student.

- Eunice Son and Afifa Tanisa**, *NYU ARISE**.
- 2020 **Raisa Bhuiyan and Rachel Rose**, *NYU ARISE*.
- 2019 **Kennan Gumbs and Heeyun Kim**, *NYU ARISE*.
Kennan is now at MIT.
- 2018 **Zhengyi Li**, *NYU BS student*.
Now team lead at Opine.

* - NYU ARISE (Applied Research Innovations in Science and Engineering) is a summer STEM research opportunity for 10th and 11th graders.

TALKS

- 2021 **COMSOC Seminar Series**, *Online International Seminar*.
- 2017 **Natural Language Processing (NLP) Community Reception**, *NYU Center for Data Science, New York - USA*.

COMMUNITY SERVICE

Academic

- Program Committee AAAI (2021, 2022), AAAI ICWSM (2020, 2021).
- Reviewing AAAI (2021, 2022), AAAI ICWSM (2020, 2021, 2022), ACM CHI (2020, 2021, 2022), ACM CSCW (2019, 2020, 2021, 2022).
- External Reviewing ACM WebSci (2020).
- Selection Committee NYU ARISE (2020, 2021).
- Representative NYU CSE Ph.D. Students.

Non-academic

- Volunteer Part of the Leadership Circle at UNICEF.