KUNAL RELIA

Ph.D. Candidate - New York University

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EDUCATION

2017 - Present **Ph.D., Computer Science**,
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 - Present **Research Assistant**, *NYU Tandon School of Engineering, Brooklyn - USA.*
Progressing towards formalizing the contradistinction between diversity and representation.
Details on research projects: https://kunalrelia.github.io/ResearchProjects

Non-research

Sep 2015 - May 2016 **Team Lead/Analyst**, *NYU Office of Graduate Admissions, Brooklyn - USA.*
Led a team of 21 graduate assistants; cut application processing time by 15%, and augmented a transcript evaluation algorithm

Sep 2015 - Dec 2015 **Teaching Assistant**, *NYU Tandon School of Engineering, Brooklyn - USA.*
Assisted Prof. Viji Srinivasan (Computer Architecture 1)

Jun 2010 - Jan 2015 **Co-founder**, *ReLife Pharma, Rajkot - India.*
Co-founded a health care start-up manufacturing and marketing medicines in India

Jul 2013 - Jun 2014 **Software Developer Intern**, *Johnson & Johnson Ltd., Rajkot - India.*
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 Multiwinner 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.

[‡] : Among the top 25% PC members.

Non-academic

Volunteer	Part of the Leadership Circle at UNICEF.