

# KUNAL RELIA

*Ph.D. Candidate - New York University*

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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 consideration)**, ideated and wrote the proposal:  
“Context-aware, Responsible, and Interpretable AI 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

\* : authors listed alphabetically, § : shared lead authorship.

- [W3] Tessa West, Amir Aghasadeghi\*, Amie Gordon\*, Haoyue Ping\*, **Kunal Relia\***, Julia Stoyanovich§, and Wendy Berry Mendes§. “*Who gets sick? Seasonal, Regional, and Psychological Factors of Developing Cold and Flu Symptoms*”, 2021.
- [W2] **Kunal Relia**. “*Mitigating Fairness Induced Disproportionality in Multiwinner Elections*”, 2021.
- [W1] **Kunal Relia**. “*DiRe Committee: Diversity and Representation Constraints in Multi-winner Elections*”, under submission, 2021.  
Shorter version presented at the 8<sup>th</sup> International Workshop on Computational Social Choice (COMSOC) Poster Session, 2021.

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## MENTORING

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

**Eunice Son and Afifa Tanisa**, *NYU ARISE* <sup>†</sup>.

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.

<sup>†</sup> : NYU ARISE (Applied Research Innovations in Science and Engineering) is a summer STEM research opportunity for 10<sup>th</sup> and 11<sup>th</sup> graders.

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## TALKS

2021 **COMSOC Seminar Series**, *Online International Seminar*.

2017 **Natural Language Processing (NLP) Community Reception**, *NYU Center for Data Science, New York - USA*.

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## COMMUNITY SERVICE

### Academic

Program Committee AAAI (2021<sup>‡</sup>, 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.

<sup>‡</sup> : Among the top 25% PC members.

### Non-academic

Volunteer Part of the Leadership Circle at UNICEF.