Kanishka Misra

PhD Student in Natural Language Understanding

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PhD Student interested in problems related to Natural Language Processing and Computational Social Science.

Education

2018–present **Ph.D.**, *Purdue University*, West Lafayette, IN.
Natural Language Understanding
Related Research: Computational Social Science, Cross Lingual Analysis, Word and Sentence Representations, Short Text Classification.
Part of the Applied Knowledge Representation and Natural Language Understanding (*AKRaNLU*) lab
Advisor: **Dr. Julia M. Rayz**

2014–2018 **B.S.**, *Purdue University*, West Lafayette, IN.
Computer Information Technology
Minor: Statistics

Fellowships and Assistantships

August 2018 - Present **PRF Ph.D. Research Fellowship**, *Purdue Research Foundation*.
- 1 year Research fellowship awarded to work on predatory conversational environments.
- Developing supervized and unsupervised methods to analyze language used by Contact and Non Contact offenders.

Experience

May 2017–Aug 2017 **Data Scientist Intern**, *Perscio*, Indianapolis, IN.
- Tidied, transformed, visualized and modelled healthcare data to help clients make effective data driven decisions.
- Built quick data driven reports and tools using Tableau and Shiny (effective web based presentation of data, in R).
- Collaborated with the state of Indiana and SPEA(at IU) to work on opioid prescription trends in the state.
- **Skills utilized:** R (tidyverse), Tableau, Shiny.

Jan 2017 – April 2017 **Undergraduate Research Assistant**, *Purdue University*, West Lafayette, IN.
- Performed Statistical data analysis and modeling on a cyber crime dataset to understand and predict deviant behavior in the cyberspace.
- **Skills utilized:** R, SPSS.

Awards

April 2018 **Best Undergraduate Research Poster**, *Purdue OUR Expo*.
Award presented as a result of a successful presentation of my research poster titled *Predicting future interaction between predators and decoys in an online conversational environment*

January 2018 **Research Scholarship**, *Office of Undergraduate Research, Purdue University*.
Semester long scholarship to work on predatory content in conversational environments

June 2017 **First Place**, *Indy Civic Hackathon*.
Open Innovation Challenge - Awarded for developing an exploratory tool to map Health Concerns in various counties of Indiana with the respective budget allocations

Skills

Programming	R (Expert), Python (Proficient), C++ (Beginner, mostly Rcpp), LaTeX(Beginner)
Package Contribution	widyr(R), tidytext(R), gganimate(R), textrecipes(R)
Programming Libraries	pytorch, tidyverse(R), tidymodels(R), tensorflow, Rcpp, gensim
Statistics	Probability Theory, GLMs, Statistical Inference, Bayesian Models (Beginner)
Natural Languages	English, Hindi, Gujarati, Odiya

Graduate Coursework

- Natural Language Understanding
- NLP in Information Security
- Probability Theory
- Applied Statistics
- Design of Experiments
- Research Seminar
- Philosophy of Applied Science

Mentoring

2018-Present John Phan (Undergraduate) Bias in Word Embeddings

Reviewing

2018 IEEE-IRC

2019 CogSci

References

Academia

- Dr. Julia Rayz
- Dr. Kathryn C. Seigfried-Spellar
- Dr. Victor Raskin

Industry

- Kent Hiller
- Bob Boehnlein

(more upon request)

Publications

Tatiana R Ringenberg, Kanishka Misra, Kathryn C Seigfried-Spellar, and Julia T. Rayz. Exploring automatic identification of fantasy-driven and contact-driven online solicitation. *CHARMS 2019 at IEEE IRC 2019*, Accepted for Publication.

Kathryn C Seigfried-Spellar, Marcus K Rogers, Julia T. Rayz, Shih-Feng Yang,

Kanishka Misra, and Tatiana R Ringenberg. Chat analysis triage tool: Differentiating contact-driven vs. fantasy-driven child sex offenders. *Forensic Science International*, Accepted for Publication.