

AKANKSHA ATREY

Curriculum Vitae

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CAREER FOCUS

I am pursuing my Ph.D. in Computer Science in the field of Artificial Intelligence and Machine Learning under Dr. David Jensen at UMass Amherst with the intention of pursuing a career in academia. My current research work is oriented towards explainable AI using causal modeling techniques.

EDUCATION

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| Sept 2017 – present | University of Massachusetts Amherst <ul style="list-style-type: none">- <i>M.S./Ph.D. in Computer Science</i> |
| Aug 2014 – Dec 2016 | University at Albany, SUNY <ul style="list-style-type: none">- <i>B.Sc. Computer Science and Mathematics</i>- <i>Summa Cum Laude (4.0 GPA)</i>- <i>Dean's List of Distinguished Students, Presidential Honor Society, Tau Sigma National Honor Society</i> |
| Sep 2013 – Jun 2014 | University of Winnipeg <ul style="list-style-type: none">- <i>Only freshmen year of degree completed here (3.96 GPA)</i>- <i>Dean's Honor List</i> |
| Sep 2010 – Jun 2013 | Fort Richmond Collegiate, Winnipeg, MB <ul style="list-style-type: none">- <i>High School Diploma</i>- <i>Summa Cum Laude</i> |

RESEARCH EXPERIENCE

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| May 2016 – Jun 2017 | Rutgers University, New Brunswick (Prof. Vivek Singh) "Faces in Places: Real-time Diversity Analytics Using Social Media" <ul style="list-style-type: none">- <i>Field: Machine Learning, Social Computing, Statistics</i>- <i>Paper accepted in ICWSM 2017</i>- <i>Paper accepted at ACMMM 2017 (Funded by ACMMM)</i> |
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- Aug 2016 – Dec 2016 **University at Albany, SUNY (Prof. Feng Chen)**
 “Twitter Popularity Diffusion of Presidential Candidates through Detection of Twitter Bots”
- *Field: Machine Learning, Data Mining*
 - *Presented poster at **MIT IEEE Undergraduate Research Conference 2016** (Funded by CEAS, SUNY Albany)*
- Jan 2016 – Feb 2017 **University at Albany, SUNY (Prof. Teresa Harrison)**
 “E-petition Information Diffusion in Online Social Networks”
- *Field: Informatics, Social Computing, Statistics*
 - *Presented poster at **Digital Government Society Conference 2016***
 - *Paper accepted in **Digital Government Society Conference 2017** (Won best paper award)*
 - *Journal paper submitted in **Government Information Quarterly 2018***
- Nov 2014 – Dec 2015 **University at Albany, SUNY (Prof. Elizabeth Munch)**
 “Reeb Graph Based Validation of Statistical Predictive Models for the Spread of AIDS”
- *Field: Computational Topology, Statistics, Graph Theory*
 - *Presented poster at **New York Celebration of Women in Computing 2015** (Funded by CCI, SUNY Albany)*
 - *Presented poster at **Grace Hopper Celebration of Women in Computing 2015** (Funded by Initiatives for Women and CCIWIT, SUNY Albany)*

WORK EXPERIENCE

- Jan 2017 – Aug 2017 Software Engineer at **IBM, Poughkeepsie, NY**
- *L2 Service for IBM z/OS mainframe. Specifically, I worked with the Supervisor and RTM components.*
- Jan 2015 – Dec 2016 Teaching Assistant (Computer Science) at **University at Albany, SUNY**
- *Introduction to Computer Science, Programming at the Hardware/Software Interface, Systems Programming, Automata Formal Theory*
 - *Responsible for grading, conducting labs and holding office hours*

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| Sep 2016 – Dec 2016 | <p>Software Developer Intern (Backend) at Auto/Mate Dealership Systems, Albany, NY</p> <ul style="list-style-type: none"> - <i>Worked on ReportMate, responsible for COBOL to Pre-SQL conversions</i> - <i>Languages/Tools: Java, SQL</i> |
| Feb 2016 – May 2016 | <p>Software Developer Intern (Backend) at Commerce Hub, Albany, NY</p> <ul style="list-style-type: none"> - <i>Worked in Product Stream team, responsible for various updates, writing testing scripts, etc.</i> - <i>Languages/Tools: Java, Groovy, MongoDB, Spock</i> |
| May 2015 – Aug 2015 | <p>Web Developer Intern (both frontend and backend) at VoxVilla, LLC, Albany NY</p> <ul style="list-style-type: none"> - <i>Responsible for creating database and design of website</i> - <i>Languages/Tools: Java, PHP, HTML5, SQL</i> |
| May 2015 – Aug 2015 | <p>Office of Marketing and Communications University at Albany, SUNY, NY</p> <ul style="list-style-type: none"> - <i>Social surveyor and information gatherer for the SUNY Albany app and website</i> |

AWARDS AND HONORS

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| May 2017 | Lita and Stephen Greenwald Research Fund Award 2017 |
| April 2017 | ISO President's Medal for Exemplary Leadership |
| April 2017 | Spellman Top Academic Achievement Award |
| Oct 2016 | CRA-W Research Scholar (for Grace Hopper Celebration) |
| May 2016 | Bruce B. and Louise Steen Gravitt Scholarship |
| Mar 2016 | Spellman Top Academic Achievement Award |
| Jan 2016 | Tau Sigma National Honor Society Scholarship |
| Jun 2015 | Women and Technology Award and Scholarship |
| Sep 2013 | Ross A. Johnston Entrance Scholarship in Math and Statistics |

EXTRACURRICULAR

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| Jun 2016 – present | Indian Student Organization – Vice President - University at Albany, SUNY |
| Mar 2016 – present | Tau Sigma National Honor Society – President - University at Albany, SUNY |
| Sep 2015 – present | Transfer Student Peer Mentor - University at Albany, SUNY |
| Mar 2015 – Mar 2016 | Tau Sigma National Honor Society – Secretary - University at Albany, SUNY |
| Jan 2015 – Apr 2015 | Asian Pacific American Conference – Logistics Chair - University at Albany, SUNY |
| Aug 2012 – Jun 2014 | Victoria General Hospital – Lunch Distributer - Winnipeg, MB, Canada |

PUBLICATIONS

Dumas, C. L., Atrey, A., Lee, J., Harrison, T. M., Fake, T., Zhao, X., & Ravi, S. S. (2016, June). E-petition Information Diffusion in Online Social Networks. In *Proceedings of the 17th International Digital Government Research Conference on Digital Government Research* (pp. 515-517). ACM.

Harrison, T. M., Fake, T., Dumas, C., May, W., DePaula, N., Atrey, A., ... & Ravi, S. S. (2017, June). E-Petitioning and Online Media: The Case of# BringBackOurGirls. In *Proceedings of the 18th Annual International Conference on Digital Government Research* (pp. 11-20). ACM. **(Won the best paper award)**

Singh, V. K., Atrey, A., & Hegde, S. (2017, October). Do Diverse Social Interactions Make Us Smile More Often? Studying Smiles and Diversity Via Social Media Photos. In *ACM Multimedia 2017* (pp. 1818- 1827).

Singh, V. K., Hegde, S., & Atrey, A. (2017, May). Towards Measuring Fine-Grained Diversity Using Social Media Photographs. In *ICWSM 2017* (pp. 668- 671).

TECHNICAL STRENGTHS

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| Languages: | Java, Python, C, MIPS Assembly Language, Groovy, JavaScript, MATLAB |
| Tools/Frameworks: | MySQL, JDBC, Unix, Mockito, Spock, Apache, Gradle, MongoDB, Jupyter Notebook |