

Jana Grcevich

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Work Experience

Data Science Fellow, Insight Data Science, NY, NY Jan 2017 - Present

- Created Dupe Snoop, an algorithm that identifies duplicate questions in Quora.com (see janagrc.com)
- Applied and tested skip-thought, tf-idf, and several word2vec natural language processing methods in Python

Co-Author, *Vacation Guide to the Solar System*, NY, NY Jan 2016 - Jan 2017

- Co-wrote a popular-level astronomy book which will be published by Penguin Random House in June of 2017

Data Science Intern, Empirical Systems, Cambridge, MA Jan 2017

- Used a pre-release probabilistic population model software platform (Empirical Data Platform) and Python to analyze Salesforce data, shipping data, point of sale customer data, and scientific data
- Met with data scientist teams interested in purchasing the software to discuss analysis and applications

Scientific and Creative Consultant, Guerilla Science, NY, NY Oct 2016 - Dec 2016

- Consulted on the creation of an astronomy themed virtual reality app for Google cardboard
- Identified planetary topographic data sources and locations, and ensured scientific accuracy
- Created storyboards and scripts for the VR application and Kickstarter campaign video

Postdoctoral Fellow, Astrophysics, American Museum of Natural History, NY, NY Jan 2013 - Oct 2016

- Used hydrodynamic simulations written in Fortran to study the evolution of dwarf galaxies
- Discovered two new nearby dwarf galaxies through analysis of radio telescope gas survey data
- Developed and taught graduate level astronomy courses for pre-service secondary teachers, high-school level astronomy courses, and online courses on topics in physics and astronomy

Graduate Research Fellow, Astrophysics, Columbia University, NY, NY Jan 2009 - Oct 2013

- Conducted radio telescope observations of interstellar gas, including daily survey data quality checks
- Developed a source finder in IDL that uses 3D kernels to catalog isolated neutral hydrogen gas clouds
- Ran a suite of Fortran simulations to quantitatively model gas loss in dwarf galaxies

Education

Ph.D., Astrophysics, Columbia University, New York, NY 2013

M.S., Astronomy, University of Michigan, Ann Arbor, MI 2009

B.S., Physics, Astrophysics, and Mathematics, University of Wisconsin, Madison, WI 2005

Skills

Python (NumPy, Pandas, Matplotlib, scikit-learn, Gensim, NLTK, skip-thoughts), IDL (Interactive Data Language), Fortran, LaTeX, Empirical Data Platform, data analysis, statistics, machine learning, image processing