

## Angela Vierling-Claassen

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### Skills

- **Languages:** Python, some experience with R, SQL, shell scripting, Octave
  - **Tools:** pandas/numpy, matplotlib, plot.ly, BeautifulSoup, NLTK, scikit-learn, Jupyter, HTML/CSS, Flask, Excel/pivot tables, LaTeX
  - **Techniques:** web scraping, linear & logistic regression, random forest classification, natural language processing (NLP), probability, stats, linear algebra, real/complex analysis, optimization, differential equations.
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### Experience

**Fellow, *Insight Data Science*** Boston, MA May 2017 - Present

- Created web app with Flask ([www.trolltrackr.com](http://www.trolltrackr.com)) to find and allow users to block trolls.
- Pulled 4M status updates and user information for 20K users from Twitter API and stored data in SQL database.
- Used bag of words, TF-IDF vectorizer with bigrams in a logistic regression model to predict trolling behavior on Twitter with accuracy/precision of 78%.

**Associate Professor of Math, *Lesley University*** Cambridge, MA Sept 2007 – May 2017

- Implemented and evaluated the use of ALEKS software in Summer 2016 to place 200+ incoming students into 13 freshman mathematics courses. (Python/pandas)
- Wrote automated web scraper that extracted 170K text reviews and ratings on RateMyProfessor.com. Analyzed 21K ratings segmented by professor gender, student grade and field. Built Random Forest TFIDF classification model with 94% accuracy in predicting high/low course rating from review text. (Python/BeautifulSoup/NLTK/scikit-learn) Code available at: [github/AngelaVC/ProfReviews](https://github.com/AngelaVC/ProfReviews).
- As a faculty leader, chaired university-wide faculty organization of 180+ faculty, ran multiple monthly meetings in a variety of roles to engage faculty and administration in joint problem-solving.
- Taught 60+ classes on a variety of topics in mathematics, including remedial math, problem-solving, pre-calculus, calculus, game theory, multivariable calculus, abstract algebra, differential equations, and capstone research.
- Developed specialized mathematics courses for adult learners and art students. Developed online courses in functions/algebra for teachers, remedial mathematics, and pre-calculus. Developed and taught mini-courses in codes and cryptography and college math readiness.

**Preceptor of Mathematics, *Harvard University*** Cambridge, MA Sept 2004 – May 2007

- Taught 12 classes on a variety of topics including algebraic thinking in education, calculus I and II.
  - Managed instructional teams of 5-6 post-docs or graduate students each semester, holding weekly meetings, creating lesson plans and training for teaching and assessment. Selected and trained 50+ undergraduate course assistants each semester.
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### Education

PhD	Mathematics with a focus on Algebraic Geometry, Boston University	May 2004
BS	Secondary Mathematics Education from Florida State University	December 1995

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### Honors & Awards

- Lesley research fellowships in 2009, 2011 & 2012.
- 2003 AAAS Mass Media Science/Engineering Fellow
- 2005 Project NExT Dolciani Fellow
- Certificates of Distinction in Teaching from the Derek Bok Center at Harvard in 2004 & 2007