

# Anjalie Field

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## EDUCATION

**Carnegie Mellon University**, Pittsburgh, PA

*Ph.D., Language Technologies Institute*

Sep 2017 – Present

- Adviser: Prof. Yulia Tsvetkov
- Coursework includes: Machine Learning (10701), Algorithms for NLP (11711), Neural Networks for NLP (11747), Intermediate Statistics (36705), Computational Ethics for NLP (11830)
- Cumulative GPA: 4.12 / 4.00

**Princeton University**, Princeton, NJ

*B.A., Computer Science*

Sep 2011 – Jun 2015

- *Magna cum laude*
- Certificates: Language and Culture of Ancient Rome; Language and Culture of Ancient Greece
- Cumulative GPA: 3.69 / 4.00

## PUBLICATIONS

Anjalie Field, Doron Kliger, Shuly Wintner, Jennifer Pan, Dan Jurafsky, Yulia Tsvetkov, “Framing and Agenda-setting in Russian News: a Computational Analysis of Intricate Political Strategies” (2018), Conference on Empirical Methods in Natural Language Processing (EMNLP), (To Appear; also presented at Ninth Annual Conference on New Directions in Analyzing Text as Data 2018), <https://arxiv.org/abs/1808.09386>.

Anjalie Field, “An Automated Approach to Syntax-based Analysis of Classical Latin” (2016), Digital Classics Online, 2(3):57-78, <https://journals.ub.uni-heidelberg.de/index.php/dco/article/view/32315>.

Anjalie Field, Jeffrey Field, “Melamine and cyanuric acid do not interfere with Bradford and Ninhydrin assays for protein determination” (2010), Food Chemistry, 121(3):912-917. (Also presented at American Chemical Society Meeting)

## AWARDS & HONORS

Recipient of NSF Graduate Research Fellowship (GRFP)

2018 – Present

Sigma Xi, Associate Member

2015 – Present

Received travel grant to attend Conference on New Directions in Analyzing Text as Data (TADA)

2018

Received travel grant to attend NLP for Internet Freedom Workshop at COLING 2018

2018

Recipient of National Latin Exam Scholarship

2011 – 2013

National Merit Scholar

2011

## RESEARCH PROJECTS

**Current Project** “Empowerment in #MeToo: A Graph-Based Approach to Analyzing Power Dynamics in News Corpora” 2018-Present

- Description: The way news articles portray narratives of sexual harassment influence public opinion and societal responses to such events. We are developing a method to automatically quantify power relationships portrayed in news articles with the aim of addressing questions like “Who controls the narrative?” and “Who has power?”. Our main approach involves identifying features indicative of power and building graph propagation models to visualize power dynamics.
- Teammates: Gayatri Bhat; Supervisor: Prof. Yulia Tsvetkov

**Class Project 11747** “Analyzing Signs of Self-Reported PTSD and Depression on Twitter” 2018

- Description: We developed a model for the 2015 CLPsych Shared Task: identifying self-reported depression and PTSD in Twitter users. Our primary approach involved a convolutional neural network that pooled features across tweets and incorporated various types of metadata.
- Teammates: Torsten Wörtwein, Yang Zhang; Supervisor: Prof. Graham Neubig

**Senior Thesis**, “An Automated Approach to Syntax-Based Analysis of Classical Latin” 2015

- Description: I analyzed the style of various Latin authors by developing automated tools that detect syntactic structures. Analysis was conducted using Python scripts and data from the Perseus Project.
- Supervisors: Dr. Christiane Fellbaum and Prof. Yelena Baraz

**Junior Project Spring Semester**, “Analysis of Cryptographic Keys in Memory” 2014

- Description: I examined the cryptographic keys left in memory by various applications in order to assess the potential damage of memory attacks. Primary analysis was conducted with Linux tools.
- Supervisor: Prof. Ed Felten

- Junior Project Fall Semester, “Authorship Analysis of Xenophon’s *Cyropaedia*”** 2014
- Description: I analyzed N-gram frequencies in Xenophon’s *Cyropaedia* (Ancient Greek text) to determine authorship. Text processing was performed using Python. Analysis was conducted using Python and Matlab.
  - Supervisor: Prof. Arvind Narayanan

**INDUSTRY  
EXPERIENCE**

**Five Rings Capital, New York, NY**

*Software Developer*

Aug 2015 – Jun 2017

- Projects included implementing trading algorithms, developing tools and interfaces for profit monitoring, and automating routine tasks, primarily using C++ and Python. Responsibilities also included conducting first and second round interviews for software developer applicants.

**Keystone Strategy, New York, NY**

*Summer Associate*

Jun 2014 – Aug 2014

- Responsibilities included conducting research, creating presentations, and managing interviews with industry experts.

**American Native Nursery, Quakertown, PA**

*Intern*

Jun 2013 – Aug 2013

- Primary project was designing an inventory system in Excel VBA, focusing on making features user-friendly.

**Baker Industries, Malvern, PA**

*Intern*

Jun 2012 – Aug 2012, Dec 2012 – Jan 2013

- Daily tasks included tracking finances and working with ex-offenders, homeless, and recovering substance abusers in the work rehabilitation program. Long-term projects included writing grant requests and organizing fundraisers.

**COMMUNITY AND  
LEADERSHIP  
EXPERIENCE**

**Archery Instructor**

*Certified USA Level 3*

- Falcon Archers, PA: Volunteer coach for adult and youth classes Nov 2017 – Present
- Gotham Archery, NY: Senior instructor for adult and youth classes, Range Safety Officer Aug 2015 – Aug 2017
- Princeton University, NJ: Founder and President of Princeton Club Archery Dec 2012 – Jun 2015
- Wa-Xo-Be Archers, NJ: Volunteer instructor for community programs Sep 2012 – Jun 2013
- Middletown Archery, PA: Assistant instructor for youth group Sep 2008 – Jun 2011

**Princeton Outdoor Action**

- Leader Trainer, Technical Skills Trainer Sep 2014 – Jun 2015
- Coordinator of Programming Committee Sep 2013 – Jun 2014
- Trip Leader Sep 2012 – Jun 2015

**Petey Greene Program**

- Volunteer Tutor – GED tutoring for inmates in NJ correctional facilities Sep 2012 – Jun 2014

**SKILLS**

Computer Languages: C++, C, Python, Java, SQL; experience in R, OCaml, MATLAB

Languages: proficient in Spanish, Latin, and Ancient Greek