

# Elli E. Bourlai

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## Education

**Ph.D., Information Science (minor: Computational Linguistics)** **December 2018**

Department of Information and Library Science, School of Informatics, Computing, and Engineering,  
Indiana University Bloomington IN, United States.

**M.A., Historical Language Studies (Research Track, awarded with Distinction)** **June 2009**

University of Sheffield, Sheffield, UK.

**B.A., English Language and Literature (specialization: Theoretical Linguistics)** **February 2008**

Aristotle University of Thessaloniki, Greece.

## Professional Experience

**Computational Linguist / Data Analysis Consultant** **April 2018 - present**

*Megaputer Intelligence Inc.*

- Developed custom Sentiment Analysis schemas and Taxonomies for clients with specific needs
- Worked on Entity Extraction for customer reviews, medical service records, and legal documents
- Helped improve Domain-Specific Sentiment Analysis, Text Analysis capabilities for Greek (Sentiment Analysis, Entity Extraction), and incorporation of Emojis in Sentiment Analysis

**Adjunct Lecturer** **August 2013 - present**

*Department of Information and Library Science, School of Informatics, Computing, and Engineering, Indiana University Bloomington*

- Served as primary instructor for graduate and graduate/undergraduate combined courses with approximately 10 to 30 students in each section: Z511 Database Design, Z544 Gender and Computerization, Z543 Computer-Mediated Communication
- Updated existing course structure and material using Canvas learning management system
- Lead classes (lectures and labs), graded assignments, and guided students in course-relevant research projects

**Research Mentor** **October 2017 - December 2018**

*Undergraduate Research Opportunities in Computing at IU Program, School of Informatics, Computing, and Engineering, Indiana University Bloomington*

- Served as research mentor for 4 undergraduate students on research project I lead
- Guided them during the research process, helped develop their research skills, and acquire new technical skills

## Technical Skills

- **Computer Languages:** Python, Unix, R, XPD, Pearl (basic), HTML/XHTML (basic)
- **Databases:** PostgreSQL, MS Access, MySQL, Aqua Data Studio, Neo4j (basic), XPath (basic)
- **Miscellaneous:** LIWC, SPSS, NLTK, Stanford CoreNLP, RDF, Oxygen, Markdown, Git repositories
- **DataCamp Certifications:** Importing Data in Python (Part 1), Introduction to R, RBootcamp (Day 1 - 4), Introduction to Machine Learning
- **World Languages:** English (fluent), Greek (native), French (elementary)

## Selected Projects and Publications

- Semantic Natural Language Processing, NoAI, and Big Knowledge. (Research Seminar Project). Member of the Graph Database Team. (<http://linguistic.technology>)
- Bourlai, E. E. (in preparation). Gender and Language in CMD: A Historical Analysis of USENET Newsgroups (Dissertation Thesis).
- Bourlai, E. E. & Gao, Z. (in preparation). The Historical Usenet Newsgroups Corpus (HUNC): a Diachronic CMD Corpus.
- Bourlai, E. E., Herring, S. C., & Abdul-Mageed, M. (in preparation). Distinguishing functional types of hashtags: A structural approach.
- Bourlai, E. E. (2017). 'Comments in tags please!': Tagging practices on Tumblr. *Discourse, Context, and Media*, doi:10.1016/j.dcm.2017.08.003.
- Bourlai E. E. & Herring, S. C. (2014). Multimodal Communication on Tumblr: "I Have So Many Feels!" Proceedings of WebSci'14, June 23-26, Bloomington, IN.

## Service

- **Grader**, North American Computational Linguistics Olympiad (NACLO), 2018.
- **Reviewer**, Language@Internet, Pragmatics and Society, SAGE Open, Corpus Linguistics Fest (CLiF), 2016.
- **Member**, Women In Computing (WIC), School of Informatics, Computing, and Engineering, 2017 - present.
- **Fellow**, Center for Computer-Mediated Communication, Indiana University Bloomington, 2015 - present.
- **Co-organizer**, Poster Committee for InWIC 2017, Indianapolis, October 27-28, 2017.
- **Research Judge**, SoIC Projects and Research Symposium 2017, School of Informatics, Computing, and Engineering, April 20, 2017.
- **Chair**, ILS Doctoral Student Association, Indiana University Bloomington, November 2014 - 2016.
- **Student Representative**, School of Informatics, Computing, and Engineering, Luddy Hall Groundbreaking Ceremony, October 2, 2015.
- **Organizer**, Half-Day Doctoral Student Seminar, Indiana University Bloomington, April 24, 2015.
- **Session Chair**, Spring 2015 CCMC Symposia, April 4th 2015, Bloomington, IN.

## Awards

- Scholarship for the Grace Hopper Celebration of Women in Computing Conference 2018, AnitaB.org, 2018.
- Rob Kling Social Informatics Fellowship, Rob Kling Center for Social Informatics, 2017-2018.
- Full sponsorship for the Grace Hopper Celebration of Women in Computing Conference 2017, School of Informatics, Computing, and Engineering, Indiana University Bloomington, 2017.
- Best presentation (2nd place), The 14th ILS Annual Doctoral Research Forum, Department of Information and Library Science, School of Informatics, Computing, and Engineering, Indiana University Bloomington, 2016.
- Dean's Fellowship, Department of Information and Library Science, School of Informatics, Computing, and Engineering, Indiana University Bloomington, 2012-2016.
- Doctoral Student Travel Grants, Department of Information and Library Science, School of Informatics, Computing, and Engineering, Indiana University Bloomington, 2013-2014 / 2015-2016 / 2016-2017.
- Best presentation (1st place), The 11th ILS Annual Doctoral Research Forum, Department of Information and Library Science, School of Informatics, Computing, and Engineering, Indiana University Bloomington, 2013.
- Greek National Scholarships Foundation Award for Academic Excellence, 2003.