

# BRODY DINGEL

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## EDUCATION

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### Iowa State University

M.A. in Applied Linguistics – Computational emphasis

Ames, IA

August 2018 – Present

B.A. in Linguistics

May 2018

B.A. in World Languages and Cultures, emphasis in Spanish

Minor in Teaching English as a Second Language

Cumulative GPA: 4.00

Honor: *Summa Cum Laude*

## SELECT PART-TIME APPOINTMENTS

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### Smart Language Systems, LLC

February 2018 – Present

- Chief Operating Officer

## NLP-RELATED PROJECTS

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### Interactive online computer-assisted language learning tool (Python)

- Core NLP POS tagger, SQLite data logging, Bottle.py

### Automated Spanish text analyzer (Python)

- Universal Dependencies API with part-of-speech tagging, feature detection and analysis

### Movie sentiment classifier (R)

- Tested four competing models of text classification

### Corpus cleaning automator (Python)

- Automatic extraction of undesired features from large learner corpus

## RELEVANT COURSEWORK

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**Computational Analysis of English**, Computational Linguistics, English 520

**Methods of Formal Linguistic Analysis**, Programming in Python, English 516

**Language as Data**, Programming in R, Linguistics 410

**Statistical Methods for Research**, Statistics 401

**Statistical Design and Experiments**, Statistics 402

**Computers and Language**, Linguistics 120

**Introduction to Symbolic Logic**, Linguistics 207

**Introduction to Programming**, Computer Science 104

## RESEARCH ASSISTANTSHIPS

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**Senior Research Assistant**, Dr. Evgeny Chukharev-Hudilainen

March 2015 – August 2018

- Annotated corpora of L2 learner texts for various grammatical features
- Evaluated CALL systems for accuracy of automated correction in eye-tracking
- Revised Prolog scripts to enhance precision and recall of L2 error identification
- Collected L2 learner data using concurrent eye-tracking and keystroke logging technology
- Trained and supervised undergraduate RAs to perform data collection and corpus annotation
- Presented eye-tracking technology at professional conference

**Research Assistant**, Dr. Cristina Pardo Ballester

January 2019 – Present

- Develop tasks for new Spanish language placement exam

**Research Assistant**, Dr. Bethany Gray

April 2017 – August 2018

- Corrected tags of various grammatical features in an automatically parsed L2 learner corpus
- Cleaned L2 learner texts to prepare for future grammatical analysis
- Worked with automated parsers

**Research Assistant**, Dr. Cristina Pardo Ballester

Summer 2016

- Developed a WordPress website to showcase study abroad experiences for future travelers
- Collected and transcribed data from student-student social media interactions

## CONFERENCE PRESENTATIONS (9)

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**Dingel, B.**, & Terrill, K. (2019, April). *The Importance of Corpus-Based Research for Spanish Teachers*. Paper presented at 2019 SLA Graduate Student Symposium at the University of Wisconsin, Madison, WI.

**Dingel, B.**, & Terrill, K. (2019, April). *The Importance of Corpus-Based Research for Spanish Teachers*. Paper presented at 2019 Graduate and Professional Student Research Conference at Iowa State University, Ames, IA.

Chukharev-Hudilainen, E., Saricaoglu, A., Feng, H.-H., Torrance, M., **Dingel, B.**, Dux, Emily. (2018, August). *Where do L1 and L2 writers look when they pause? A method for capturing biometric data at scale*. Paper presented at SIG Writing Conference 2018 at the University of Antwerp, Antwerp, Belgium.

**Dingel, B.** (2018, April). *Turning cutting-edge pronunciation research into practice: An app for efficient learning of segmentals in ESL*. Poster presented at the 2018 NGL | MSU Learning Symposium at Michigan State University, East Lansing, Michigan.

Chukharev-Hudilainen, E., Saricaoglu, A., Feng, H.-H., Torrance, M., **Dingel, B.** (2018, March). *Combined concurrent keystroke logging and eye tracking for formative assessment of L2 writing*. Paper presented at Language Assessment Research Conference 2018 at Iowa State University, Ames, Iowa.

Chukharev-Hudilainen, E., **Dingel, B.**, Zbaracki, R. (2017, September). *CyWrite: Biometric tracking of cognitive processes during writing*. Technology presented at Technology in Second Language Learning Conference 2017 at Iowa State University, Ames, Iowa.

**Dingel, B.** (2017, April). *Organization of vocabulary in L2 Spanish textbooks: Semantic relationships within and between vocabulary lists*. Paper presented at ISU Symposium on Undergraduate Research & Creative Expression 2017 at Iowa State University, Ames, Iowa.

**Dingel, B.**, Heckathorn, J., Johansen, C., Lewellen, R. (2016, April). *Automated evaluation of written errors by second language writers*. Paper presented at Minnesota Undergraduate Linguistics Symposium 2016 at St. Cloud State University, St. Cloud, Minnesota.

Chukharev-Hudilainen, E., Feng, H.-H., Bowden, M., **Dingel, B.**, Heckathorn, J., & Stoldt, K. (2016, September). *Annotated corpora in the development of automated writing evaluation tools: The importance of reliability*. Poster presented at American Association for Corpus Linguistics 2016 Conference at Iowa State University, Ames, Iowa.

## TEACHING EXPERIENCE

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- Instructor**, Spanish 101, Iowa State University Fall 2018 – Present
- Teach elementary Spanish to two classrooms of 30 students per semester
  - Implement communicative language teaching focusing on the four skills of reading, writing, speaking, and listening
- Instructor**, Computers and Language, Iowa State University Fall 2019
- Will teach an introductory course on how computers support language-related tasks
- Teaching Assistant**, Linguistics 437, Dr. Bethany Gray Fall 2017
- Planned and taught two lessons on grammatical analysis to a classroom of 20 students
  - Assisted in revising course materials and suggested potential topics to add to the curriculum
  - Graded student projects and daily work, including sentence diagrams
  - Held a weekly office hour to help struggling students with homework and test preparation
  - Performed daily classroom duties, such as taking attendance and assisting students
- Teaching Assistant**, Spanish 351, Dr. Cristina Pardo Ballester Jan. 2017 – Dec. 2017
- Graded student translation homework and provided formative feedback in Spanish
  - Communicated with instructor and students to resolve student difficulties
- Tutor of Spanish and ESL**, WLC dept. and private 2015 – Present
- Provided weekly tutoring sessions for both individuals and groups of learners
  - Created and implemented individualized lesson materials for students needing targeted instruction
- Intern**, California Language School (English academy in Valencia, Spain) May 2016 – July 2016
- Provided private tutoring on English grammar to Spanish-speaking students
  - Designed pages of a beginner-level ESL textbook for use at the English academy
  - Assisted teachers in the classroom to further engage students in authentic English conversation
  - Administered practice Cambridge ESOL exams to prepare students for testing experience
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- ## HONORS & AWARDS (8)
- Professional Travel Funding Grant**, spring 2019. Amount \$300.
- Professional Advancement Grant**, spring 2019. Amount \$200.
- Applied Linguistics Program Small Travel Grant**, spring 2019. Amount \$100.
- Outstanding Graduating Senior in Linguistics**, spring 2018.
- Outstanding Graduating Senior in Spanish**, spring 2018.
- Phi Beta Kappa**, inducted spring 2017.
- President's Honor**, Highest 2% LAS Senior, spring 2017.
- Student Employee of the Year Nomination**, spring 2017.
- Ronald A. Schubert Scholarship**, awarded for Study Abroad in Valencia, Spain, summer 2016.
- President's Honor**, Highest 2% LAS Junior, spring 2016.
- President's Honor**, Highest 2% LAS Sophomore, spring 2015.
- Sigma Delta Pi**, National Collegiate Hispanic Honor Society, inducted fall 2015.
- Bright Scholars of Iowa Scholarship**, awarded fall 2014 – present.

## **LEADERSHIP & SERVICE**

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**President and Treasurer, Linguistics Club** Aug. 2017 – May 2018; Jan. 2016 – May 2017

- Planned and implemented weekly meetings to engage current and prospective students with other people and ideas in linguistics
- Promoted the linguistics program by reaching out to students across campus and inviting them to club meetings and events
- Worked with VP and Treasurer to plan and implement fundraisers for future club events
- Managed club expenditures and worked with the cabinet to maintain a budget

**President and Treasurer, Spanish Club** Aug. 2016 – May 2017; Aug. 2015 – May 2016

- Organized and lead weekly meetings to provide students of all levels with opportunities to practice speaking Spanish
- Reached out to native Spanish speakers and invited them to present their culture to the club
- Collaborated with other clubs to plan joint events to bring students of diverse backgrounds together

**Translator, Nevada Legal Aid Society** (volunteer) February – March 2016

- Translated legal texts from English to Spanish for the area's Spanish-speaking population
- Conferred with local lawyers and native speakers to ensure accuracy of translations

## **WORK (OTHER)**

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**Utility Maintenance, City of Ames, IA** Summer 2018

- Located city utility lines to ensure safe digging for construction crews
- Performed general maintenance of city property

**Grounds and Maintenance, Knoxville CSD, Knoxville, IA** Summer 2017

- Maintained school grounds by working both independently and with fellow crew members
- Demonstrated hard work ethic by working long hours in summer heat

**Fareway Stores, Knoxville, IA** May 2014 – January 2017

- Provided superior customer assistance to ensure quality care of customers
- Worked independently and as a team to maintain high-quality store environment

## **SKILLS**

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**Programming skills:** NLP, Python, R, Javascript, HTML, CSS, Perl

**Spanish fluency:** Near-native