

# Michael McGuire

Website: <http://cl.indiana.edu/~mpmcguir/>

Email: [mpmcguir@bucknell.edu](mailto:mpmcguir@bucknell.edu)

Email: [mpmcguir@indiana.edu](mailto:mpmcguir@indiana.edu)

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## Education

Indiana University, Bloomington, IN

**Degree: Ph.D. in Linguistics (September 2021)**

**Major:** Linguistics **Minor:** Second Language Studies, Slavic Languages and Literature, Central Eurasian Studies

**Dissertation Title:** Computational Sentiment Analysis of an 18th Century Corpus of Moravian English Memoirs

**Advisor:** Sandra Kübler

Indiana University, Bloomington, IN

**Degree: M.A. in Linguistics (May 2009)**

Bucknell University, Lewisburg, PA

**Degree: Bachelor of Arts in Political Science (May 2007)**

**Major:** Political Science, Russian, **Minor:** Linguistics, French

**Honors:** Phi Beta Kappa, Magna Cum Lauda

## Work Experience

**Computer Programmer:** Computer programming for digital humanities, specifically working on the Moravian Lives Project <https://moravian.bucknell.edu/>, Bucknell University Comparative and Digital Humanities Program, Lewisburg, PA (September 2016-Present)

**Graduate Research Assistant:** Computational corpus linguistics and digital humanities work on Flamenca Old Occitan Corpus Project: POS-tagging and syntactic parsing of an Old Occitan corpus, visualization of original and parallel translations of text <https://cl.indiana.edu/~mpmcguir/flamenca01.php>, <http://cl.indiana.edu:8080/annis-gui-3.6.0/>, Department of French and Italian, Indiana University (Fall 2021)

**Graduate Research Assistant:** Graduate Research Assistantship, corpus-based computational linguistics research projects, including ATMO <http://uyghur.ittc.ku.edu/2017/06/pos-tags/index.xhtml>, Linguistics Department (Spring 2021)

**Visiting Researcher/Computer Programmer/Instructor:** Computer programming for the Moravian Lives Project at Johannes Gutenberg University of Mainz and instructor at ISS (International Summer School on computational methods for annotation) at Academy of Sciences and Literature Mainz, Germany (Fall 2018)

**Visiting Researcher and Computer Programmer:** Computer programming and consulting/advising for digital humanities projects at the Centre for Digital Humanities, University of Gothenburg, Sweden (May-June 2018, Fall 2017, March 2017)

**Digital Pedagogy & Scholarship Assistant (Library and Information Technology):** Computer programming for digital humanities and digital scholarship research projects and teaching tools, Bucknell University Library and Information Technology, Lewisburg, PA (May-August 2016)

**Independent Consultant:** Work on “Feeding the Future” presentation with Prof. Gary Sojka. Research, data analysis and graphing with R, preparing a presentation for the talk at Pennsylvania College of Technology <https://pctoday.pct.edu/lecturer-to-discuss-potential-solutions-to-global-food-insecurity/> (August-October 2016)

**Assistant in Tech Services:** Interlibrary Loan, Electronic Reserves, Document Delivery, and other computer/library projects related to scanning/converting physical material and making it accessible online. Bucknell University Library and Information Technology, Lewisburg, PA (June 2003-August 2007, additional periodic work 2007-2009)

## **Publications**

### **Publications:**

Faull, Katherine, and Michael McGuire. (Submitted for Publication). "Analyzing Moravian Feelings: Using Computational Methods to ask Questions about Norms and Sentiments in 18th Century Moravian Lebensläufe." *Journal of Moravian History*.

Scriver, Olga, E.D. Blodgett, Michael McGuire (2016). “A mas novas vos turn / I take you back to my tale. Parallel corpus of Old Occitan: Romance of Flamenca.” *Proceedings of 11th International Congress for Occitan Studies*.

Dekydtpotter, Laurent, Michael McGuire, Sabrina Mossman (2013). “CHL computing and processing resources in native speakers and L2 learners.” *12th Generative Approaches to Second Language Acquisition*. April 26-28 2013.

Laurent Dekydtpotter, Michael McGuire, and Sabrina Mossman (2013). “Movement and Binding-Driven Efficiencies in L2 Sentence Processing: On the Role of UG-Constrained Acquisition in L2 Cognition.” *Selected Proceedings of the 2011 Second Language Research Forum*, ed. Erik Voss et al., 104-117. Somerville, MA: Cascadilla Proceedings Project.

Darcy, Isabelle, Laurent Dekydtpotter, Rex A. Sprouse, Justin Glover, Christiane Kaden, Michael McGuire & John H.G. Scott (2012). “Direct Mapping of Acoustics to Phonology: On the lexical encoding of front round vowels in L1 English - L2 French acquisition” *Second Language Research*. 28: 5-40.

## **Presentations** Conference Presentations:

Faull, Katherine and Michael McGuire. August 26-29, 2018. "Analyzing Moravian Feelings: Using Computational Methods to ask Questions about Norms and Sentiments in Moravian Lebensläufe." V. Internationaler Kongress für Pietismusforschung „Gefühl und Norm. Pietismus und Gefühlskulturen im 18. Jahrhundert“. Halle, Germany.

Faull, Katherine, Trausti Dagsson, and Michael McGuire. 14–16 March 2017. "Reading Moravian Lives: Overcoming Challenges in Transcribing and Digitizing Archival Memoirs." Digital Humanities in the Nordic Countries 2nd Conference. University of Gothenburg. Gothenburg, Sweden. Lewisburg, Pennsylvania.

Faull, Katherine, Diane Jakacki, and Michael McGuire. October 28-30, 2016. "Reading Moravian Lives: Overcoming Challenges in Transcribing and Digitizing Archival Memoirs." BUDSC16 (Bucknell Digital Scholarship Conference). Bucknell University.

McGuire, Michael and Olga Scrivner. November 6-8, 2015. "Creating a Digital Environment for Engaging Students, Teachers, and Researchers in Medieval Literature." BUDSC15 (Bucknell Digital Scholarship Conference). Bucknell University. Lewisburg, Pennsylvania.

Scrivner, Olga Sandra Kübler, Michael McGuire, Barbara Vance, Eric Beuerlein. June 16-21 2014. "Le Roman de Flamenca: An Annotated Corpus of Old Occitan." XIen Congrès de l'Associacion Internacionala d'Estudis Occitans. Universitat de Lhèida, Spain.

McGuire, Michael. June 5-7, 2014. "Cyclic and post-cyclic integration and the conceptual-intentional system." Olinco (Olomouc Linguistics Colloquium) Univerzita Palackého v Olomouci, Czech Republic. Laurent Dekydtspotter, Michael McGuire, and Sabrina Mossman (in progress). "The grammar of anaphora and processing demands in reading English as a second language."

Rex A. Sprouse, Hyun-Kyoung Seo, Boshra El-Ghazoly, Leslie Gabriele, Michael McGuire, Sabrina Mossman, John H.G. Scott & Yunwen Su (2013). "Deep Lexical Transfer and the Acquisition of the English Dative Alternation." 32nd Annual SLRF October 30-November 1.

SLRF: October 13, 2011 "Convergence of Theory and Practice: Binding Theory, Movement Theory and Learner Performance" Laurent Dekydtspotter, Michael McGuire, Sabrina Mossman and Kate Nearing

Midwest Slavic: April 17, 2010: "L2 Acquisition of the Unaccusative/Unergative Distinction in Russian" Michael McGuire.

BUCLD 34: November 7, 2009: "The contours of lexico-phonological dissociation in English-French interlanguage" I. Darcy, L. Dekydtspotter, R.

Sprouse, J. Scott, J. Glover, M. McGuire, C. Kaden.

SLRF 2009 November 1: “Lexical encoding of new phonological categories: An English-French interlanguage lexico-phonological study” Isabelle Darcy, Laurent Dekydtspotter, Rex Sprouse, Justin Glover, Christiane Kaden, Michael McGuire, Vance Schaefer, John H. G. Scott.

157th Meeting: Acoustical Society of America: May 18-22 2009: “Category formation and lexical encoding of a new contrast” Isabelle Darcy, Laurent Dekydtspotter, Rex A. Sprouse, Christiane Kaden, John H. G. Scott, Vance Schaefer, and Michael McGuire.

Midwest Slavic: April 18, 2009: “Coexistence of Classifier Phrases and Class Nouns in Hungarian” Michael McGuire.

### **Teaching Experience:**

## **Teaching**

Instructor: International Summer School on computational methods for annotation (Fall 2018) Academy of Sciences and Literature Mainz, Germany  
Teaching Assistant: Linguistics L203 (Fall 2013) Indiana University  
Teaching Assistant: Linguistics C104 Language and Thought (Spring 2013) Indiana University  
EIE (English as a second language course in Bloomington, Indiana) as part of the teaching practicum in SLS (Second Language Studies) 535/536 (Fall 2010) Indiana University  
Teaching Assistant: Linguistics L303 (Spring 2008) Indiana University  
Teaching Assistant: Slavic E103 Language and Thought (Fall 2007) Indiana University  
Teaching Assistant: Linguistics 110 (Spring 2007) Bucknell University

### **Research Fellowship Awards:**

## **Research Fellowships**

MÖB Hungarian Scholarship Board Fellowship (Spring 2014)  
BCS (Bosnian/Croatian/Serbian) FLAS (Foreign Language and Area Studies) Fellowship (Summer 2013)  
MÖB Hungarian Scholarship Board Fellowship (Fall 2012)  
Academic Year Exchange Fellowship at the University of Debrecen in Debrecen, Hungary (Fall 2011-Spring 2012)  
Hungarian Academic Year FLAS Fellowship (2009-2010)  
Romanian FLAS Fellowship (Summer 2009)  
Hungarian Academic Year FLAS Fellowship (2008-2009)  
Hungarian FLAS (Summer 2008)  
Russian FLAS (Summer 2007)

## **Relevant Skills and Experience**

### **Computer Programming Skills and Experience:**

- Computational sentiment (emotion) analysis, discourse analysis, topic modeling, semantic/thematic role labeling, text entailment
- Linguistic corpora: automated tokenization, POS-tagging, tree-tagging, named entity recognition, searching/query language, and statistical analysis
- Maintaining and designing custom themes and plugins for content management systems: including WordPress, MediaWiki, and Omeka
- Full Stack (front-end/back-end) web development using PHP, SQL, JavaScript, html5, and css3
- User Experience and User Interface in design of digital humanities projects
- Python and Perl in the context of natural language processing, corpus linguistics, and digital humanities
- Web development and testing/management of digital humanities platforms and software in different operating systems (Windows, Linux, MacOS)
- JavaScript and Libraries for Graphing and Data Visualization: Node.js, C3.js, D3.js, Leaflet, Canvas
- R for statistical analysis, graphing, computational linguistics, and digital humanities
- Cloud computing: integrating Python and other scripts with Google Apps and APIs and AWS (Amazon Web Services)
- Apache server setup and maintenance for small-scale projects
- Image recognition, training, and designing custom language packs with Tesseract OCR (German Fraktur in Moravian texts and Old Occitan)
- Text Markup Formats: TEI-XML, XML, XSLT, and JSON – tagging, searching, and integration with broader computational projects

### **Sample Digital Humanities Projects:**

- Dissertation Project: Computational Sentiment Analysis of a Corpus of Moravian English Memoirs - please note that the website and user interface is still in development and does not reflect all digital content included in my dissertation
- <https://cl.indiana.edu/~mpmcguir/moravian/index.php>
- Moravian Lives Project: (2016-present) Co-developer and responsible for site maintenance.
- Homepage: <https://moravian.bucknell.edu/>
- Transcription Desk sample page and home search page: [https://moravian.bucknell.edu/scripto/?scripto\\_action=transcribe&scripto\\_doc\\_id=300034&scripto\\_doc\\_page\\_id=4000522](https://moravian.bucknell.edu/scripto/?scripto_action=transcribe&scripto_doc_id=300034&scripto_doc_page_id=4000522)
- <https://moravian.bucknell.edu/transcribe/>

- Swedish Moravian Lives Project: <http://moravianlives.org/>
- Flamenca Digital Scholarship Project (2015-present)  
<https://cl.indiana.edu/~mpmcguir/flamenca01.php>
- Flamenca Old Occitan Linguistic Corpus (2013-present), collaborative project with Olga Scrivner, Sandra Kübler, and Barbara Vance  
<http://cl.indiana.edu:8080/annis-gui-3.6.0/>
- Webmaster and website designer for Seven Mountains Audubon Society Chapter <https://www.sevenmountainsaudubon.org> (2015-present) Custom designed WordPress theme modified from open source “Outstandingthemes”
- Search and retrieval of information from xml files and database creation for Selma Lagerlöf Project <https://www.gu.se/forskning/minnen-av-selma-lagerlof>

**Language Skills:**

- Native Fluency: English
- Research Languages: Hungarian, French, Russian, German
- Varying levels of study and ability to use in the context of linguistic research analysis: Swedish, Croatian, Romanian, Latin, Old Occitan, Spanish, Czech