

Kenneth Steimel

Curriculum Vitae

Education

- 2011–2015 **Bachelor of Arts**, *University of Missouri*, Columbia, 3.9.
Linguistics – Summa Cum Laude with Honors
○ Honors Thesis on Wanga Noun Tone
○ Computer Science Minor
- 2015–Present **Doctor of Philosophy**, *Indiana University*, Bloomington, 3.9.
Linguistics with an Emphasis in Computational Linguistics
○ Computer Science Minor

Experience

Vocational

- 2016–Present **Student Editor**, *The LINGUIST List*, Bloomington, Indiana.
I edit Calls for Papers, Conferences, Queries and other smaller posting areas for the website. In addition, I have been involved with LINGUIST List projects like the LFG parser and the redesign of the website.
- 2015–2017 **Information Technology Services Temp**, *Panera Bread*, St.Louis, Missouri.
I worked at Panera three summers in a row. The first summer was spent using powershell, bash and tcl to automate server stand-up. The second summer was spent learning about Big Data infrastructure and devised methods for integrating existing data collection services with Hadoop.
I was a large asset during our coordination with Big Data consulting companies providing them with information about the existing data sources at Panera. My third iteration, I worked with Blue Data's containerized Hadoop infrastructure.
○ Development of scripts and platforms for integration of Hadoop into existing database ecosystem
○ Coordination of capacity planning data with Big Data consulting companies:
- Creation of scripts to automate data flow into clusters using platform independent solutions
- Preprocessing of data for machine-learning
○ Automation of server stand-up using tcl, bash and powershell.

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Miscellaneous Work

2011–2015 **Draftsman**, *Cardinal Surveying & Mapping*, Cottleville, Missouri.

Drafted boundary surveys in Carlson Surveying software using raw data points and public land records.

Volunteer

2016–Present **Grader**, *North American Computational Linguistics Olympiad*.

Publications

Refereed Conference Proceedings

- Ćavar, Damir, Moe, Lwin, Hu, Hai, & Steimel, Kenneth. (2016). Preliminary results from the Free Linguistic Environment project. In Arnold, Doug, Butt, Miriam, Crysmann, Berthold, King, Tracy Holloway, & Müller, Stefan (Eds.): *Proceedings of the Joint 2016 Conference on Head-driven Phrase Structure Grammar and Lexical Functional Grammar, Polish Academy of Sciences, Warsaw, Poland* (pp. 161–181). Stanford, CA: CSLI Publications.
- Liu, Can, Li, Wen, Demarest, Bradford, Chen, Yue, Couture, Sara, Dakota, Daniel, Haduong, Nikita, Kaufman, Noah, Lamont, Andrew, Pancholi, Manan, Steimel, Kenneth & Kübler, Sandra. (2016). IUCL at SemEval-2016 Task 6: An Ensemble Model for Stance Detection in Twitter. *Proceedings of the 10th International Workshop on Semantic Evaluation (SemEval-2016), Association for Computational Linguistics, San Diego, California* (pp. 394–400). Stroudsburg, PA: Association for Computational Linguistics (ACL)

Conference Presentations

- Steimel, Kenneth & Nyamahanga, Richard. (2017). The phonetic properties of Kihehe stops. Annual Conference on African Linguistics, Bloomington, IN.
- Steimel, Kenneth & Marlo, Michael. (2015). Wanga noun tonology. Annual Conference on African Linguistics, Eugene, OR.

Computer skills

Programming	Python, C, Powershell, TCL	NLP	Parser implementation, Stance detection, Machine learning
Operating Systems	Linux, Windows	Markup Languages	T _E X, some HTML
High Performance Computing	Practical knowledge of programming for a HPC system (MPI, OpenMP, MPI I/O)	Hadoop utilities	HAWQ, HIVE, Zeppelin note-book

Interests

- Deploying and using self-hosted software
 - Running 5 node Hadoop cluster with CentOS 6 and Hortonworks with Spark, Ambari, HAWQ and Zeppelin
 - Running nextcloud cloud storage software on home server
- Coffee roasting
- Backpacking

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Languages

German Advanced

Reading, writing and listening; speaking with hesitation.






Swahili Intermediate

Same level of proficiency in all four skills.

Arabic Beginner

1 year of undergraduate courses

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 [ksteimel](https://github.com/ksteimel)

References

Academic References

- Sandra Kußler
skuebler@indiana.edu
Indiana University
- Damir Ćavar
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Indiana University
- Michael Marlo
marlom@missouri.edu
University of Missouri–Columbia

Professional References

- James Foppe
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Panera Bread
- Tim Cross
crosstim@swbell.net
Panera Bread
(more upon request)

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Autodesk Careers

January 31, 2017

Autodesk, Inc.
111 McInnis Parkway
San Rafael, CA 94903

Dear Sir or Madam,

I have included my CV for the Watson Machine Learning Engineer internship. I have always been interested in design software: my first job involved drafting using Carlson Surveying software.

I am currently enrolled in the Computational Linguistics PhD program at Indiana University. The knowledge of machine learning in relation to natural language processing tasks that I have developed during my studies has prepared me for this internship. I have a strong Linguistics background as well which I anticipate being useful while trying to determine what gaps in conversation are occurring while communicating with the AI product.

I have a few years of experience drafting in a professional setting. This experience seems like it would be beneficial when trying to discern if mistakes are occurring due to jargon or elements in the discourse that are specific to a design context. For example, knowing that 'chains' may be a unit of measurement is something that may not show up in the training data that the AI is built around but may still be something of importance. In addition, background knowledge that the AI learns through interaction may also be important. For example, if a certain surveyor is known to be extremely reliable based upon accuracy in past surveys, the AI may want to notify the designer if the current solution is calling this very reputable surveyor's pins off.

I think that I have a lot to contribute due to my experience with linguistics, natural language processing and design. I also believe that AutoDesk would be a phenomenal place to continue to learn.

I appreciate being given the opportunity to make my case. Thank you for taking the time to consider my application.

Yours faithfully,

Kenneth Steimel

Attached: curriculum vitae

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