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Mailing Address

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Department Mailing Addresses

{Linguistics, Computer Science} Department
College of William & Mary, P.O. Box 8795
Williamsburg, VA 23187-8795

EDUCATION

2013—2017 (anticipated)	**The College of William & Mary** in Williamsburg, VA Studying Linguistics and Computer Science Cumulative G.P.A. 3.7; Dean's List for 4 semesters
Fall 2015	**Universiteit Leiden** in Leiden, the Netherlands Courses in Linguistics, Meta-Science, and Social Sciences
2006—2013	**Norfolk Academy** in Norfolk, VA Advanced courses in French, German, Mathematics, and Music Theory Graduated with Honors

EMPLOYMENT EXPERIENCE

Spring 2015 (ongoing)	**Freelance Web Developer** in Williamsburg and Norfolk, VA
	Designed, built, and maintained Ruby on Rails webapps and their databases. Evaluated and reviewed research papers for implementation feasibility. Provided technical consultation to local entrepreneurs.
Summer 2015 & Summer 2013	**Software & Computer Engineering** at Valeo Service, USA in Newport News, VA
	Designed and built internal software. Deployed new software and systems. Maintained company servers. Provided technical support to employees.
Fall & Spring 2014	**Software Development Intern** at the Institute for the Theory and Practice of International Relations at William & Mary
	Maintained Ruby on Rails websites. Manipulated and interpreted technical papers using machine learning algorithms. Developed text mining processes. Designed and maintained internal software.

RESEARCH EXPERIENCE

Spring 2015 (ongoing)	**Sensation and Perception through Augmented-Reality Audio** with the Small Hall Makerspace and the Physics department at William & Mary
	Building and analyzing a system for sensory substitution or augmentation using electrical sensors as an artificial organ, augmented-reality audio as a human-machine interface, and a microprocessor development board for signal-processing.
Summer 2014	**Learning Patterns of Mobile Interface Design** with the Department of Engineering and Sciences at the University of Colorado, Colorado Springs
	Studying the effectiveness of machine learning techniques to analyze the quality of Android applications' graphical design.

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[1]PGP Fingerprint: `65A6 6455 A2A5 CAC8 13E4   93FB FC13 890A 40FE EF7B`

LINGUISTICS RESEARCH INTERESTS

- Computational linguistics research and development, especially related to cognitive science or computational cognitive modelling
- Theoretical work with perceptual biases and heuristics as manifest in ideolect
- Language documentation, analysis, and preservation with an emphasis on community empowerment

COMPUTER SCIENCE RESEARCH INTERESTS

- Programming language development
- Computational linguistics research and development, especially related to cognitive science or computational cognitive modelling
- Developing powerful, flexible tools for computer power users and researchers outside the Software Development community
- Design patterns within concurrent and functional programming

COMPUTING SKILLS

- Proficient in Python (since 2007) and C (since 2013). Comfortable with Rust, Haskell, Ruby, Go, Java (the JVM and Android), and Shell scripting. Familiar with C++, Scheme/CLisp, and Lua.
- Comfortable on the web with Ruby/Rails, Javascript (including Coffeescript, node.js, JQuery, backbone.js), HTML, and CSS styling.
- Experienced at creating, managing, and working with PostgreSQL, MySQL, and Redis databases.
- Experienced building, configuring, and maintaining GNU/Linux machines, both professionally and for fun, using various distributions. An official Arch Linux pre-release package tester.
- Submitted patches to large open-source projects. Proficient with git and related tools.
- Comfortable reading and writing language grammars (EBNF/YACC and Field Linguistics alike).
- Designed sound for films, theatrical productions, and music side-projects in Ableton Live.
- Comfortable with LaTeX and modern desktop office suites.

OTHER TECHNICAL EXPERIENCE

- Designed test-cases and adapted project specifications for *Data Structures* course at William & Mary.
- Executed a technical review of van Baarsen's *GitLab Cookbook* (Pact Publishing, Dec. 2014).
- Built and programmed embedded systems with Arduino microcontrollers and SoCs.
- Active in the open-source software community; see `quint.guvernator.net` for projects.
- Retired User, Revspace, a Hackerspace in Den Haag, Netherlands.

EXTRACURRICULAR ACTIVITIES

- Board Member and User, Small Hall Makerspace within the William & Mary Physics department
- Retired User, Revspace, a Hackerspace in Den Haag, Netherlands. `revspace.nl`
- Copy Editor, *The Flat Hat* student newspaper
- Show Host and Webmaster, *WCWM* student FM and internet radio station
- Shift Volunteer and Webmaster, *The Meridian* student coffeehouse

REFERENCES

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