Christopher Jenkins

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	Iowa City, 52246	**Email**	christopher-jenkins@uiowa.edu
Date of Birth	1990 Dec 25	**Web**	cwjnkins.github.io
Nationality	United States of America		

Education

2017-Now **The University of Iowa**, Iowa City

PhD in Computer Science
Advisor: Dr. Aaron Stump
GPA - Overall: 4.26, Scale: 4.0

2009-2013 **Trinity University**, San Antonio, TX

BSc Honors in Computer Science (*magna cum laude*)
Minor - Mathematics
GPA - Overall: 3.84, Major: 3.94, Scale: 4.0

Research Experience

Aug 2017 - The University of Iowa
Now *Graduate Research Assistant (Aaron Stump - NSF Award 1524519)*

Design and implementation of *Cedille*, an experimental dependently typed programming language. Specific features include type inference, (co)inductive datatypes, and pattern-matching and recursion

Jun - The University of Wisconsin at Oshkosh
Jul 2011 *REU, advised by (David Furcy - NSF Award 0851569)*

Design and implementation of an educational algorithm visualization for Booth's multiplication algorithm with accompanying digital mini-textbook, with preliminary study to measure efficacy

Industry Experience

Jul 2015 - **Parlevel Systems, Inc**, 112 E Pecan St, San Antonio, TX 78205
Jul 2017 *Lead embedded systems software developer*

Parlevel Box, a vending machine telemeter with an ARM CPU and custom board running customized F9 microkernel

Jun 2013 - **Genesi USA, Inc**, 2600 Virginia Avenue NW, Washington, D.C. 20037
Jul 2015 *Embedded systems software developer*

Slimbook, an netbook with an ARM CPU and custom board running customized Ubuntu

Scholarship

Journal Publications

- **An effective educational module for Booth's multiplication algorithm**

  Jenkins, Christopher and Voss, Adam and Furcy, David. 2012. In *J. Computing Sciences in Colleges*, 27. 54-62

Conference Publications

- **Quotients by idempotent functions in Cedille**

  Marmaduke, Andrew and Jenkins, Christopher and Stump, Aaron. To appear in *Proceedings of the 20th International Symposium on Trends in Functional Programming* (TFP 2019), Ron Garcia and William Bowman (Eds).

- **Spine-local type inference**

  Jenkins, Christopher and Stump, Aaron. 2018. In *Proceedings of the 30th Symposium on Implementation and Application of Functional Languages* (IFL 2018), Matteo Cimini and Jay McCarthy (Eds.). ACM, New York, NY, USA, 37-48. DOI: https://doi.org/10.1145/3310232.3310233

Theses

- Undergraduate Honors Thesis

  Toward a parallel implementation of J: Data parallelism in functional, array-oriented languages. 2013. Computer Science Honors Theses. 30. https://digitalcommons.trinity.edu/compsci_honors/30

Grants, Fellowships, and Honors

Undergraduate

- **Charles Babbage and Ada Lovelace Award** (2013)

  Awarded by the the Trinity University Department of Computer Science

- **Mach Fellowship Award** (2013)

  Awarded by Trinity University

Other Education

Oct 2016	**Coursera / École Polytechnique Fédérale de Lausanne**, online course
	Certificate earned for "Functional Program Design in Scala"
Jan 2016	**edX / Delft University of Technology**, online course
	Certificate earned for "FP101x: Introduction to Functional Programming in Haskell"
Jun 2014	**University of Oregon**, Eugene OR
	Attended the "Oregon Programming Languages Summer School"

Hobbies and Interests

- **Creator of the *Cedille Cast* on YouTube**
- ***Dungeons and Dragons, 5th edition* (as Dungeon Master and Player)**

Referees

Name	Dr. Aaron Stump	**Name**	Dr. Berna Massingill
University	The University of Iowa	**University**	Trinity University
Position	Professor	**Position**	Associate Professor
Contact	aaron-stump@uiowa.edu	**Contact**	bmassing@cs.trinity.edu

Name	Luis "Pilo" Gonzalez
Company	Parlevel Systems, Inc
Position	CEO
Contact	pilo@parlevelsystems.com