SHRUTARSHI BASU

CONTACT INFORMATION

Apartment #1,
220 North Quarry Street
Ithaca, NY 14850

484-284-0854
shr@basus.me
http://basus.me

RESEARCH INTERESTS

Programming languages, programmable systems and networks.
Hardware and software systems for concurrent and distributed computation

EDUCATION

Cornell University, PhD Program in Computer Science, expected graduation in 2015

Lafayette College, PA *Magna Cum Laude* in 2011
- B.S. Electrical and Computer Engineering with Honors
- B.A. Computer Science with Honors

HONORS AND AWARDS

J.J. Ebers Memorial Award, 2011 for "high academic achievement and noteworthy professional interest in the field of electrical engineering."
CRA Undergraduate Outstanding Research Award, 2010 – Honorable Mention
James P. Schwar Prize, 2010 awarded to a computer science student on faculty nomination
William G. McClean Tau Beta Pi Engineering Prize, 2009 for "an engineering student who has excelled in academics and extracurricular activities during the first three semesters."

Member of **Tau Beta Pi** (Engineering), **Eta Kappa Nu** (Electrical and Computer Engineering) and **Upsilon Pi Epsilon** (Computer Science) Honor Societies

RESEARCH EXPERIENCE

EXCEL Research Scholar at Lafayette College *May 2008 – May 2009, May 2010 – May 2011*
Worked under Dr. Chun Wai Liew to build a declarative programming interface and modular graphics engine for creating fractal patterns

Undergraduate Researcher at Virginia Tech *June 2009 – January 2010*
Worked under Dr. Barbara Ryder researching program representations for blended analysis. Modified existing program analysis tool and used it to analyze real-world Java programs

PUBLICATIONS

Exploring the impact of context sensitivity on blended analysis
Marc Fisher II, Bruno Dufour, **Shrutarshi Basu** and Barbara G. Ryder.
In *Proceedings of the 26th IEEE International Conference on Software Maintenance (ICSM 2010)*.

Application of formal grammars to the study of complex patterns and evolving systems
Shrutarshi Basu, Rhodes Baker, Khine Lin.
In *Proceedings of the National Conference on Undergraduate Research, 2009*.

PRESENTATIONS

A language-based approach to computational art
Shrutarashi Basu and Chun Wai Liew
At *Off the Beaten Track, 2012* colocated with the 39th ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages

COMPETITIONS

Metaphor: A Declarative Approach to Computational Art
Shrutarshi Basu and Chun Wai Liew (Advisor). Accepted for Student Research Competition at *The 42nd ACM Technical Symposium on Computer Science Education (SIGCSE 2011)*.