Carl J. Factora

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Education

Indiana University **Bloomington, IN**
Computer Science/English Literature, GPA 3.42 *2012–2016*
Coursework includes Compiler Design, functional programming, data structures, undergraduate research and graduate level studies in Homotopy Type Theory and Probabilistic Programming.

The Recurse Center NYC **New York, NY**
Hacker School *2017–Current*
Attended during batch Spring 1, 2017. Learned web development practices and concepts, contributed to open source projects, and created *Project Lamp* (descibed below).

Experience

Associate Instructor **Bloomington, IN**
Chung-chieh "Ken" Shan *Aug 2016–Dec 2016*
Assisted in Indiana University's CSCI-B490 "Advanced Functional Programming". Covered concepts of functional programming and programming techniques in Haskell.

Undergraduate Instructor **Bloomington, IN**
Indiana University *Jan 2014–May 2016*
Instructor for the following Indiana University undergrad and graduate courses:
- CSCI-P423/B523; Compiler Implementation
- CSCI-C311/B532; Programming Language Concepts
- CSCI-C211; Introduction to Computer Science

Undergraduate Researcher **Bloomington, IN**
Daniel P. Friedman *May 2015–Jul 2015*
Conducted research with Daniel P. Friedman on Martin-Löf Type Theory and dependent types. Influenced future course material for CSCI-C311 and resulted in a paper and a talk.

Papers, Talks and Projects

Project Lamp **New York, NY**
Interactive Online Book *Feb 2017–Current*
Author and co-creator of an online interactive book teaching functional programming in PureScript.

Essentials of Compilation: An Incremental Approach **Bloomington, IN**
Compiler Design Textbook *Oct 2015–May 2016*
Contributed to a compiler textbook by Jeremy Siek used for course material in CSCI-P423/B523.

Introduction to Dependent Types **Bloomington, IN**
Indiana University Logic Seminar *Oct 2015*
Presented at Indiana University's Logic Seminar on dependent types and the Calculus of Constructions.

Proficiencies

Haskell, Agda, Elm, PureScript, Racket/Scheme, Python, C, Java