# Sam Tobin-Hochstadt

## *Interests*

Gradual Types, Extensible Languages
Shipping Code, Teaching Programming

## *Projects*

Typed Racket, Racket Contracts
JIT Compilers, JS Modules

# Racket

## *A programmable programming language*

For building big and little languages

Testbed for programming language research

# Racket

## *A programmable programming language*

For bui[illegible]ittle languages

Testbed [illegible]ming language research

Shipping code!

# Typed Racket

## *A gradually-typed dialect of Racket*

Accomodates existing Racket programs

[ICFP 2010, OOPSLA 2012, ESOP 2013]

Can use existing Racket libraries

[DLS 2006, POPL 2008, OOPSLA 2012]

Uses types to optimize your program

[IFL 2010, PLDI 2011, OOPSLA 2012]

# Typed Racket

*A gradually-typed dialect of Racket*

## The inspiration for Typed Clojure

Developed by Ambrose Bonnaire-Sergeant

## Extending to dependent types

Work by Andrew Kent

# Pycket

## *Do JIT compilers speed up functional languages?*

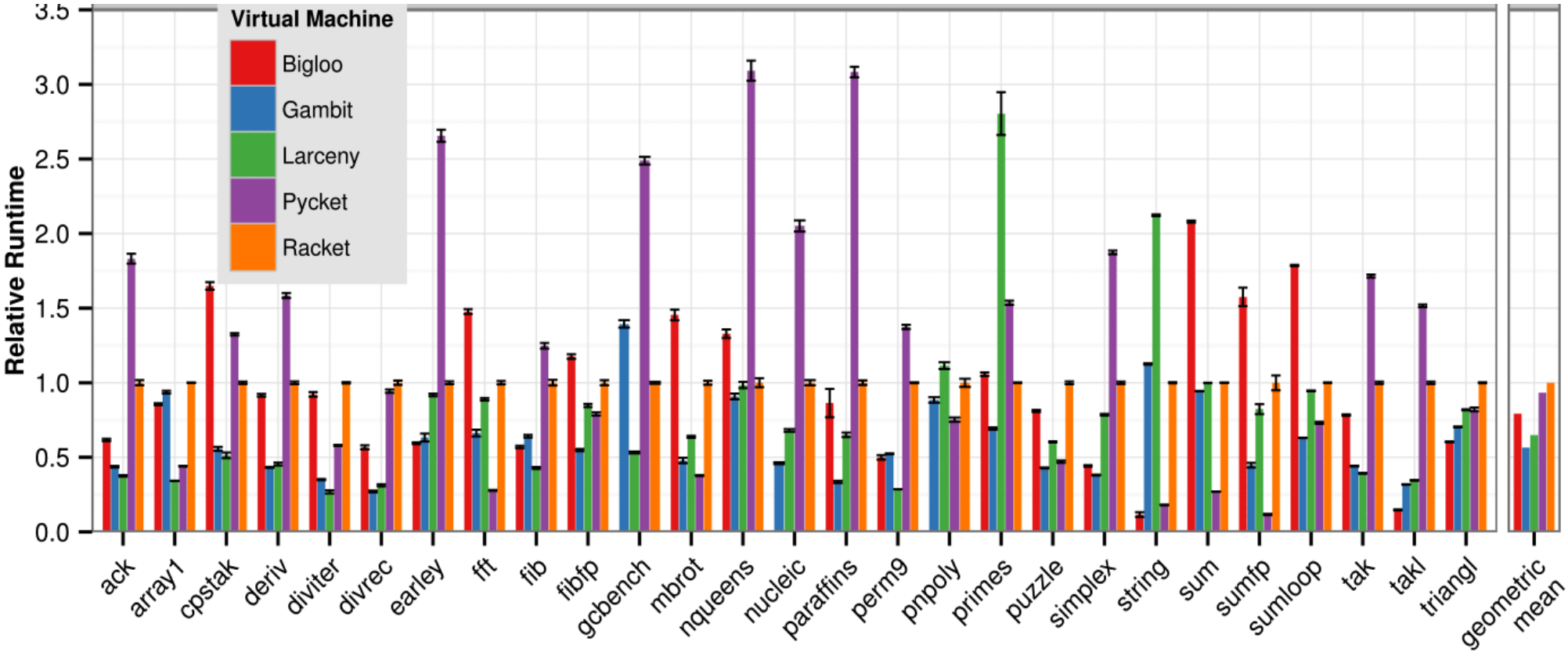
Using RPython to find out

With Jeremy Siek and Spenser Bauman

Joint with Kings College and HPI Potsdam

# Pycket

## *Do JIT compilers speed up functional languages?*



# *Come talk to me!*

samth@cs.indiana.edu

samth.github.io

Lindley 230C