

# Daniel Herr

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## Projects

*φmail*, *Rails*, *React.js/Flux*, ([Live](#), [GitHub](#)).

A clone of google's Gmail.

- Rails RESTful JSON API consumed by Flux/React frontend.
- Throttles autosave to reduce server load and allow for scale.
- Creates a seamless UX by supporting batch conversation updates.

**Asteroid Hell**, *JavaScript*, *HTML5 canvas*, *jQuery*, ([Live](#), [GitHub](#)).

- Detects collisions using vector algebra and the separating axis theorem.
- Ensures portability across browsers by using jQuery to manipulate the DOM.

**AR-lite**, *Ruby*, *SQL*, ([GitHub](#)).

A Lightweight ORM based upon Rails' ActiveRecord.

- Reduces boilerplate code by automating definition of standard model attributes.
- Dynamically creates join tables to reduce the number of database queries.

**Open Books on Contact Three Orbifolds**, ([Text](#)).

- Won the UMass Math Department 2013 Distinguished Thesis Award
- Extends Giroux's foundational correspondence between Contact Structures and Open Books to the Symmetry-Invariant case.

## Skills

Ruby	JavaScript	SQL	HTML/CSS	L <sup>A</sup> T <sub>E</sub> X
Rails	React.js	Flux	jQuery	Git

## Education

2015 - 2016 **App Academy**.

- Immersive, full-stack web development training program
  - Acceptance rate under 3%
  - Emphasis on pair programming, test-driven development, and best practices.

2007 - 2013 **University of Massachusetts**, *Ph.D. in Mathematics*.

- GPA: 3.97

2002 - 2006 **Oberlin College**, *B. A.*

- GPA: 3.52
- Major: Mathematics, Minor: Computer Science

## Employment

2013 - 2015 **Visiting Assistant Professor**, *Wheaton College*, Norton, MA.

- Taught approximately ninety students per semester in Calculus, and Statistics.

2007 - 2013 **Teaching Assistant**, *University of Massachusetts*, Amherst, MA.

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