

Daniel Herr

Projects

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

- Custom routes allow batch updating of conversations to mark important or read.
- Sets and resets timeouts to auto-save users' drafts during two second inactivity.

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

- Detects collisions using vector algebra and the separating axis theorem.
- Constructs and manages an upgrades menu using *jQuery*.

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

- A Lightweight ORM based upon Rails' ActiveRecord.
- Defines a standard model class for rows in a database.
- Constructs appropriate queries and joins to associate models.

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 ^A T _E 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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