

CURRICULUM VITAE

CHRISTOPHER D. WALKER

Contact Information

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Education

- **Ph.D. in Mathematics**, University of California, Riverside - 2011
Thesis: *A Categorification of Hall Algebras*
Advisor: Dr. John Baez
- **M.A. in Mathematics**, California State University, San Bernardino - 2006
Thesis: *Freeness of Hopf Algebras*
Advisor: Dr. Davida Fischman
- **B.A. in Mathematics**, California State University, San Bernardino - 2004

Interests

- Hopf Algebras and Quantum Groups
- Representation Theory
- Category Theory

Positions

- **Mentor Teaching Assistant**, University of California, Riverside - 2008 to 2009
- **Teaching Assistant and Fellow**, University of California, Riverside - 2006 to 2011
- **Adjunct Instructor**, Barstow Community College - 2006 to Present
- **Adjunct Instructor**, Riverside Community College - 2008
- **Institute Instructor**, Inland Counties Math Project - 2006
- **Math Teacher**, Victor Valley Christian School - 2004 to 2006

Courses Taught - Primary Instructor UC Riverside

- Calculus: Several Variables (Summer 2007, Summer 2009)
- First Year Calculus (Summer 2008, Summer 2010)

Barstow Community College

- Arithmetic (Summer 2007, Fall 2007, Summer 2008, Fall 2008, Fall 2009, Fall 2010)
- Elementary Algebra (Fall 2006, Spring 2007, Summer 2007, Fall 2007, Fall 2008, Summer 2009, Fall 2009, Fall 2010)
- Intermediate Algebra (Spring 2008, Spring 2009, Spring 2010, Summer 2010, Spring 2011)
- College Algebra (Spring 2008, Spring 2009, Spring 2010, Spring 2011)

Riverside Community College

- College Geometry (Spring 2008)

Courses Assisted - Teaching Assistant UC Riverside

- Intro. to College Math (Fall 2007, Fall 2008, Spring 2008, Fall 2009, Fall 2010, Winter 2010)
- First Year Calculus (Fall 2006, Winter 2009, Winter 2011, Spring 2011)
- Calculus: Several Variables (Winter 2007, Winter 2011)
- Business Calculus (Spring 2007, Spring 2010, Fall 2010)
- Math Education (Winter 2008)
- Linear Algebra (Fall 2010)
- Differential Geometry (Winter 2009)

Conference Talks

- *Groupoids and Egyptian Fractions* SACNAS, UC Riverside - September 2010
- *A Categorification of Hall Algebras* AMS Western Meeting, UC Riverside - November 2009
- *A Categorification of Hall Algebras* Groupoidfest 2009, Colorado University - October 2009
- *Groupoidified Linear Algebra* Groupoidfest 2008, UC Riverside - November 2008

Seminar Talks

- *A Hopf Algebra Structure on Hall Algebras* UCR Lie Theory Seminar - November 2010
- *Groupoids and Egyptian Fractions* UCR Groupoids Seminar - May 2010
- *Groupoidification (Parts 1-3)* UCR Category Theory Seminar - May 2010
- *Hall Algebras* UCR Groupoids Seminar - October 2009

- *Groupoidification (Parts 1-3)* UCR Groupoids Seminar - November 2008
- *Hopf Algebras and Quantum Groups (Parts 1-5)* UCR Quantum Gravity Seminar - Spring 2008
- *An Introduction to Hopf Algebras* UCR Lie Theory Seminar - January 2007

Awards

- **Supported Under FQXI Research Grant**, 2008 to 2010
- **Chancellor's Distinguished Fellowship Award**, UCR - 2006 to 2008
- **Outstanding Graduate Student**, CSUSB - June 2006

Professional References

- John Baez, Professor of Mathematics at UC Riverside. **email:** baez@math.ucr.edu
- Julia Bergner, Professor of Mathematics at UC Riverside. **email:** jbergner@math.ucr.edu
- Charles Johnston, Program Coordinator at Barstow College. **email:** rjohnsto@barstow.edu