

## Ian A. Morrison

Department of Physics  
University of California  
Santa Barbara, CA 93106-9530

[ian\\_morrison@physics.ucsb.edu](mailto:ian_morrison@physics.ucsb.edu)  
+1 (303) 549-2717

### Education

Ph. D., Physics, June 2011. University of California, Santa Barbara. Advisor: Donald Marolf.

Ms., Physics, June 2008. University of California, Santa Barbara.

A. B. with High Honors in Physics and Astronomy, Minor in English Literature, *Magna Cum Laude*, May 2005. Bowdoin College.

### Research, Teaching, and Software Experience

April 2011 – present: Research Specialist, Department of Physics, University of California, Santa Barbara.

June 2008 – March 2011: Graduate Research Assistant, Department of Physics, University of California, Santa Barbara.

June 2007 – June 2008: Teaching Assistant, Department of Physics, University of California, Santa Barbara.

September 2006 – June 2007: Head Teaching Assistant, Department of Physics, University of California, Santa Barbara.

July – September 2006: Software Developer/Intern, DeLorme Publishing.

September 2005 – June 2006: Teaching Assistant, Department of Physics, University of California, Santa Barbara.

### Honors and Awards

James B. Hartle Award. Awarded for best graduate student presentations at the 19th GR Conference, Mexico City. October 2010.

Chair's Certificate of Appreciation, University of California, Santa Barbara. Awarded for "outstanding performance as Head TA during 2006-2007." June 2007.

Broida Graduate Fellowship, University of California, Santa Barbara. August 2005.

Sumner Increase Kimball Prize in Natural Sciences, Bowdoin College. Awarded to the member of the senior class who has "shown the most ability and originality in the field of the Natural Sciences." May 2005.

Barry M. Goldwater Scholar, 2004 – 2005.

Edwin Herbert Hall Prize in Physics, Bowdoin College. "Awarded each year to the best sophomore scholar in the field of Physics." May 2003.

## Other Professional Activities

- Referee for *Classical and Quantum Gravity*, *Annales Henri Poincaré*, 2011 – present.
- Co-organizer, Graduate Student High-Energy Journal Club, 2009 – 2010.
- Head Teaching Assistant, Department of Physics, University of California, Santa Barbara, 2006-2007.

## Presentations

1. “Gauge artifacts, protected operators, and IR stability in de Sitter quantum gravity,” Peyresq 16, Peyresq, France, June 2011.
2. “Interesting IR effects in de Sitter,” Cosmology Seminar, Institute of Cosmology, Tufts University, April 2011.
3. “Interesting IR effects in de Sitter,” High Energy Seminar, Center for Cosmology and Particle Physics, New York University, March 2011.
4. “The IR stability of de Sitter QFT,” contributed talk, 19th General Relativity Conference, Mexico City, July 2010.
5. “Loop effects and the IR stability of de Sitter space,” High Energy/Gravity Seminar, University of California, Santa Barbara, May 2010.
6. “Group Averaging for quantum fields in de Sitter,” contributed talk, 12th Marcel Grossmann Meeting, Paris, July 2009.
7. “Interacting quantum fields in de Sitter,” contributed talk, 12th Marcel Grossmann Meeting, Paris, July 2009.
8. “Gauge invariant observables in de Sitter,” contributed talk, APS April Meeting 2009, Denver, May 2009.
9. “Effect of Differential Rotation on the Maximum Mass of Neutron Stars: Realistic Nuclear Equations of State,” contributed talk, 7th Eastern Gravity Meeting, Bowdoin College, June 2004.

## Schools, Workshops, and Conferences Attended

1. Peyresq 16, Peyresq, France, June 2011.
2. APS April Meeting, Anaheim, April 2011.
3. Cosmological Back-reaction Workshop, McGill University, November 2010.
4. IR Issues and Loops in de Sitter Space, Perimeter Institute, November 2010.
5. GR19, Mexico City, July 2010.
6. PASI School on Quantum Gravity, UNAM, July 2010.
7. 12 Marcel Grossmann Meeting, Paris, July 2009.
8. APS April Meeting, Denver, May 2009.
9. Center for Gravitational Wave Astronomy Summer School, University of Texas at Brownsville, June 2004.
10. 7th Eastern Gravity Meeting, Bowdoin College, June 2004.

## References

Donald Marolf (Ph. D. advisor)

Professor, Dept. of Physics, University of California, Santa Barbara  
Broida Hall, Mail Code 9530, Santa Barbara, CA 93106

[marolf@physics.ucsb.edu](mailto:marolf@physics.ucsb.edu)

+1 (805) 893-5205

Atsushi Higuchi

Reader, Dept. of Mathematics, University of York  
Heslington, York, YO10 5DD, UK

[ah28@york.ac.uk](mailto:ah28@york.ac.uk)

+44 1904 32 3089

Steven B. Giddings

Professor, Dept. of Physics, University of California, Santa Barbara  
Broida Hall, Mail Code 9530, Santa Barbara, CA 93106

[giddings@physics.ucsb.edu](mailto:giddings@physics.ucsb.edu)

+1 (805) 893-4750

Stefan Hollands

Professor, School of Mathematics, Cardiff University  
Senghennydd Road, Cardiff, Wales, CF24 4AG, UK

[hollandss@cardiff.ac.uk](mailto:hollandss@cardiff.ac.uk)

+44(0)29 208 706161

Mark Srednicki

Professor, Dept. of Physics, University of California, Santa Barbara  
Broida Hall, Mail Code 9530, Santa Barbara, CA 93106

[mark@physics.ucsb.edu](mailto:mark@physics.ucsb.edu)

+1 (805) 893-2165