DR. MIRAH GARY

Institute for Theoretical Physics
Technische Universität Wien
Wiedner Hauptstraße 8-10/136
1040 Wien, AUSTRIA
US: +1-805-323-6866
AT: +43-1-58801-13628

mgary@hep.itp.tuwien.ac.at
http://hep.itp.tuwien.ac.at/~mgary

Personal

- **Born** November 23, 1983
- Citizenship US Citizen Austrian Resident

Education

- University of California, Santa Barbara PhD Physics June 2011
- University of California, Santa Barbara MA Physics December 2009
- University of California, Berkeley BA with Honors Physics, Applied Mathematics May 2005

Positions

- Senior Postdoctoral Scholar/PI Institute for Theoretical Physics, Technische Universität Wien November 2014 to Present
- Postdoctoral Scholar Institute for Theoretical Physics, Technische Universität Wien September 2011 to October 2014
- Marie Curie Fellow Theory Division, CERN January 2009 to June 2009
- Summer Student Laboratoria Nazionali di Frascati, Instituto Nazionali di Fisica Nucleare June 2005 to August 2005

Grants & Awards

- CONICET Prize Postdoc (declined) December 2014
- FWF Stand-Alone Project "Higher Spin Holography in Curved Spacetimes" (EUR 330k) November 2014 to October 2017
- Berkeley Physics Undergraduate Research Scholar Fall 2003, Fall 2004, Spring 2005
- Isidore Pomerantz Scholarship in Physics Fall 2004
- ΣΠΣ National Physics Honor Society May 2004

Talks

- STAG Workshop on holography, black holes and numerical relativity, Southampton, UK "The BMS Bootstrap." (April 2017)
- String Theory Universe, Leuven, Belgium "Phases of Higher Spin Flat Space." (September 2015)
- Karl Schwarzschild Meeting, Frankfurt, Germany "Phases of Flat Space Higher Spin Gravity." (July 2015)
- Holographic Methods and Applications, Reykjavik, Iceland "Higher Spin Lifshitz Holography with Isotropic Scale Invariance." (August 2014)
- Academy of Sciences of the Czech Republic "Higher Spin Lifshitz Holography." (March 2014)
- Université Libre de Bruxelles "Higher Spin Lifshitz Holography." (March 2014)
- COST-WIS Workshop on Black Holes and Quantum Information "The Geometry of Higher Spins Reconsidered." (January 2014)

- Kavli IPMU MS Seminar "Higher Spin 3d Gravity: Beyond AdS." (July 2013)
- Strings 2013 " $W_N^{(2)}$ Gravity." (June 2013)
- EFI Winter Conference "Higher Spin Gravity in 3D and Unitarity." Invited Talk (February 2013)
- 9th Vienna Central European Seminar "Holography and the Graviational S-Matrix." (November 2012)
- ESI Workshop on Higher Spin Gravity "Beyond AdS Holography in Higher Spin Gravity." (April 2012)
- 50. Internationale Universitätswochen für Theoretische Physik (Schladming Winter School) "Non-AdS Holography and Higher Spin Gravity." (February 2012)
- Vienna Theory Lunch Seminar "Local Bulk Physics in the AdS/CFT Correspondence." (November 2011)
- CERN String Theory Seminar "Constraints on a Fine-Grained AdS/CFT Correspondence." (July 2011)
- UCSB High Energy and Gravity Seminar "Dual Giant Gravitons and Emergent Curvature." (January 2011)
- Theoretical Advanced Studies Institute in Elementary Particle Physics (TASI) "Creating Small AdS Black Holes." (June 2010)
- **GGI New Perspectives on String Theory Summer School** "AdS/CFT, the Flat-Space S-Matrix, and Singularities." (June 2009)
- Santa Barbara Gravity Workshop "2D Models for Relational Observables." (May 2007)
- Pacific Coast Gravity Meeting "Relational Observables in 2d Quantum Gravity." (March 2007)

Schools & Workshops

- STAG Workshop on holography, black holes and numberical relativity Southampton, UK April 2017
- Flat Holography Simons Center for Geometry and Physics, SUNY Stonybrook April 2016
- 54. Internationale Universitätswochen für Theoretische Physik (Schladming Winter School) Schladming, Austria February 2016
- 52. Internationale Universitätswochen für Theoretische Physik (Schladming Winter School) Schladming, Austria February 2014
- COST-WIS Workshop on Black Holes and Quantum Information Weizmann Institute, Israel January 2014
- String Theory, Black Holes and Holography Yukawa Institute for Theoretical Physics, Kyoto July 2013
- Higher Spins, Strings, and Duality Galileo Galilei Institute, Firenze April 2013 to May 2013
- 2nd Solvay Workshop on Higher Spin Gauge Theories Solvay Institute, Brussels February 2013
- 3rd O'Raifeartaigh Conference on Symmetry and Integrability Arnold Sommerfeld Center for Theoretical Physics, Munich July 2012
- ESI Workshop on Higher Spin Gravity Erwin Schrödinger Institute, Vienna April 2012
- 50. Internationale Universitätswochen für Theoretische Physik (Schladming Winter School) Schladming, Austria February 2012
- Theoretical Advanced Studies Institute in Elementary Particle Physics (TASI) University of Colorado, Boulder June 2010
- New Perspectives on String Theory Summer School Galileo Galileo Institute, Firenze June 2009
- Winter School on Supergravty, Strings and Gauge Theories CERN February 2009
- Santa Barbara Gravity Workshop Santa Barbara, CA May 2007

Teaching

- Co-Supervisor Institute for Theoretical Physics, Vienna University of Technology
 - Co-Supervision of PhD Student

- Co-Supervision of 3 Masters Students
- Graduate Student Instructor University of California, Santa Barbara
 - Relativistic Quantum Field Theory Spring 2008, Winter 2011
 - Mathematical Methods for Physicists Fall 2005, Fall 2006, Winter 2007
 - Physics for Engineers Winter 2006
 - Physics of California (Continuum Dynamics) Spring 2006
 - Physics for the Life Sciences (Lab) Summer 2006
- Undergraduate Student Instructor University of California, Berkeley
 - Basic Semiconductor Circuits (Lab) Spring 2005
 - Modern Physics Spring 2003
- Private Tutor
 - Classical Mechanics, Quantum Mechanics Winter to Spring 2008

Programs Organized

- Scientific Python Workshop Organizer May 2016
- Scientific Speaking Workshop, Frauen_Ideen_Fabrik2 Facilitator April 2015
- UCSB Physics Graduate Student Colloquium Organizer Fall 2007 to Fall 2009

References

- Daniel Grumiller TUWien grumil@hep.itp.tuwien.ac.at
- Steve Giddings UCSB giddings@physics.ucsb.edu
- Radoslav Rashkov TUWien, U. Sophia rash@hep.itp.tuwien.ac.at
- Omer Blaes UCSB (teaching) blaes@physics.ucsb.edu