

CV - Heeyeon Kim

- ADDRESS** Andrew Wiles Building, University of Oxford,
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E-mail : kimh@maths.ox.ac.uk
- EMPLOYMENT**
- **Post Doctoral Research Associate** Sep 2017 - Present
Mathematical Institute, University of Oxford, UK
 - **Post Doctoral Research Fellow** Sep 2014 - Aug 2017
Perimeter Institute for Theoretical Physics, Ontario, Canada
- EDUCATION**
- **Doctor of Philosophy in Physics** Mar 2009 - Aug 2014
Department of Physics and Astronomy,
Seoul National University
Advisor : Prof. Choonkyu Lee
Thesis Title : Exact Calculations of Indices and Partition Functions for 1D
and 2D Supersymmetric Theories and Their String Theory Applications
 - **Bachelor of Science in Physics** Mar 2005 - Feb 2009
Department of Physics,
Seoul National University
 - **Minor in Mathematical Science** Mar 2005 - Feb 2009
Department of Mathematical Sciences
Seoul National University
- RESEARCH INTERESTS** Mathematical Physics, Quantum Field Theory, Geometric Aspects of Gauge and String Theories, Supersymmetric Theories
- INVITED CONFERENCES**
- **23rd European String Workshop** Apr 2018
Kings College London, UK
Supersymmetric gauge theories on Seifert manifolds
 - **Geometry of String and Gauge Theories** July 2017
CERN, Geneva, Switzerland
Supersymmetric Partition Functions and Higher-dimensional A-twist
 - **KIAS Workshop on Strings and Geometry** Oct 2016
Korea Institute for Advanced Study, Seoul, Korea
3d $\mathcal{N} = 2$ Theories on a circle bundle over a Riemann surface
 - **Recent Development in M-theory** Feb 2016
CERN, Geneva, Switzerland
Scaling behaviour of Quiver Quantum mechanics
 - **Workshop on Gauge Theories, Supergravity and Superstrings** Aug 2015
Benasque, Spain
Witten Index and Wall-Crossing
 - **Mock Modularity, Moonshine and String Theory** Apr 2015,
Perimeter Institute, Canada
Quiver Quantum Mechanics and Wall-Crossing

- **Particle Physics Workshop 2013** Oct 2013
Busan, Korea
D-branes and Orientifolds from 2D Partition Functions
- **KIAS-YITP Joint Workshop “String Theory, Black Holes and Holography”** Jul, 2013
Kyoto, Japan
D-brane Anomaly Inflow Revisited
- **KIAS-YITP Joint Workshop “String Theory, Holography and Beyond”** Sep 2011
Korea Institute for Advanced Study, Seoul, Korea
Ab Initio Wall-Crossing

INVITED SEMINARS

- String theory group meeting, Rutgers University Nov 2018
Twisted indices of 3d $N=4$ theories and moduli space of quasi-maps
- String theory Seminar, University of Oxford Oct 2018
Twisted indices of 3d $N=4$ theories and moduli space of quasi-maps
- String Theory Seminar, University of Oxford Oct 2017
Supersymmetric Partition Functions and Higher-dimensional A-twist
- String Theory Seminar, University of Michigan Nov 2016
3d $\mathcal{N} = 2$ Theories on a circle bundle over a Riemann surface
- String Theory Seminar, Perimeter Institute Sep 2016
Twisted Indices of Three-dimensional Supersymmetric Gauge Theories on Seifert Manifold
- HEP Theory Group Seminar, McGill University May 2015
Witten Index and Wall-Crossing
- Math and String Theory Seminar, IPMU Dec 2013
Exact Partition Functions on RP^2 and Orientifolds
- String Theory Seminar, KIAS Nov 2013
Exact Partition Functions on RP^2 and Orientifolds
- String Theory Seminar, KIAS Apr 2012
D-brane Anomaly Inflow Revisited

RECOGNITIONS

- **Best Ph.D. Thesis Award**
Department of Physics and Astronomy, Seoul National University
- **Global Ph.D. Fellowship** Mar 2011 - Feb 2014
National Research Foundation of Korea
- **Presidential Scholarship** Mar 2005 - Feb 2009
Korea Student Aid Foundation

PROFESSIONAL ACTIVITIES

- **Referee** : Journal of High Energy Physics, SciPost Physics, Nuclear Physics B