

CONTACT  
INFORMATION  
EDUCATION**School of Physics and Astronomy, Sun-Yat Sen  
University**

Zhuhai, 519080, CHINA

Email: [huangzqh25@sysu.edu.cn](mailto:huangzqh25@sysu.edu.cn)URL: [www.cita.utoronto.ca/~zqhuang](http://www.cita.utoronto.ca/~zqhuang)**Ph.D.** in Department of Astronomy & Astrophysics, University of Toronto (Sept 2005 - Aug 2010)

- Thesis Topic: Probing Early and Late Inflations Beyond Tilted  $\Lambda$ CDM.
- Advisors: Prof. J. Richard Bond & Prof. Lev Kofman
- Area of Study: Cosmology

**Master of Science** in Department of Astronomy & Astrophysics, Collaborative Astronomy and Astrophysics / Physics / CITA Programme, University of Toronto (March 2006)

- Thesis Topic: Reconstructing dark energy EOS
- Advisor: Prof. Charles Dyer
- Area of Study: Cosmology, General Relativity

**Bachelor of Science** in Department of Physics, Peking University (June 2004)

- Major: Physics
- Advisor: Prof. Zhongshui Ma

PUBLICATIONS Updated at <http://www.cita.utoronto.ca/~zqhuang/work>.AWARDS AND  
HONORS

Scholarships/Fellowships

- Thousand Youth Talents Plan, 2015, CHINA
- Beatrice Tremain Fellowship, 2015, CANADA
- The Eurotalent fellowship, 2010-2012, FRANCE
- The Carl Reinhardt Fellowship in Astronomy, 2008, CANADA
- The Frank S.Hogg Memorial Fellowship, 2007, CANADA
- The Shirley Jones Fellowship, 2006, CANADA
- The Frank S.Hogg Memorial Fellowship, 2006, CANADA
- The C.A. Chant Fellowship, 2005, CANADA
- The Carl Reinhardt Fellowship in Astronomy, 2005, CANADA
- The Guanghua Fellowship, 2002, CHINA
- New Student Scholarship, 2000, CHINA

Awards

- Gold Medal (4th place) at the fifteenth Chinese Mathematics Olympiad (CMO 2000)

ACADEMIC  
EXPERIENCE**Memberships: PLANCK Satellite HFI Core Team; EUCLID Satellite Theory Group; ACTPol Team member; SPIDER team****Professor, PhD advisor:** Sun-Yat Sen University, Jul 2016 - present

Postdoc: Canadian Institute for Theoretical Astrophysics (CITA), Aug 2013 - June 2016

Postdoc: Institut de Physique Théorique, CEA/Saclay, Oct 2010 - Jul 2013

**Referee:** The Journal of Cosmology and Astroparticle Physics (JCAP); The Astrophysical Journal (ApJ)**Organizer:** cosmology theory journal club at IPhT, CEA/Saclay (2010 Oct - 2012 Aug).CONFERENCES  
ORGANIZEDCITA@25/Bond@60, the 19<sup>th</sup> Kingston Meeting, CITA, University of Toronto, May 2010

CONFERENCES  
AND  
WORKSHOPS  
ATTENDED

CAS 2015, Oct 2015, Peking University, Beijing, China  
COSMIC FLOWS (AND OTHER NOVELTIES ON LARGE SCALES), Aug 2015, Perimeter  
Institute  
CASCA 2015, May 2015, McMaster University, CANADA  
Planck HFI core-team meeting, May 2015, Paris, FRANCE  
COSMO 14, August 2014, Chicago, USA  
Planck HFI core-team meeting, Nov 2013, IAP, Paris  
Cosmology and fundamental Physics with Planck, June 2013, CERN, Switzerland  
Critical Tests of Inflation Using Non-Gaussianity, Nov 2012, MPA, Munich  
Present and Future of 2nd order CMB, Nov 2013, IPhT, CEA/Saclay, FRANCE  
Planck HFI core-team meeting, Nov 2013, IAP, Paris  
Cosmology and fundamental Physics with Planck, June 2013, CERN, Switzerland  
Planck HFI core-team meeting, July 2013, IAP, Paris  
Planck HFI core-team meeting, April 2013, IAP, Paris  
Critical Tests of Inflation Using Non-Gaussianity, Nov 2012, MPA, Munich.  
COSMO 12, Beijing, Sept 2012  
The Heart of Darkness: Dark Energy and Gravity, June 2012, IPhT, CEA/Saclay.  
Rencontres de Moriond 2012, March 2012, La Thuile, Aosta valley, Italy  
The Dark Universe, Oct 2011, Heidelberg  
COSMO 10, Sept 2011, Porto  
IPhT/LPT COSMO meeting, Dec 2010, Université Paris-Sud 11, Orsay  
CITA@25/Bond@60, the 19<sup>th</sup> Kingston Meeting, CITA, University of Toronto, May 2010  
COSMO 09, CERN, Sept 2009  
Particle Cosmology workshop, CERN, Sept 2009  
CASCA, University of Toronto, May 2009  
The TEXAS Symposium on Relativistic Astrophysics, Vancouver, Dec 2008  
COSMO 08, Aug 2008, Madison  
Workshop on Parallel Computing in Astrophysics, University of Toronto, July 2008  
Upcoming Lensing Surveys: Beyond the Obvious, University of Toronto, June 2008  
String Theory and Cosmology, Kavli Institute for Theoretical Physics China, Nov 2007  
COSMO 07, Aug 2007, Sussex

## RECENT TALKS

- *Hondeski Gravity and Anomalies*
  - CAS 2015, DAA Peking University, NAOC, Oct 2015
- *Stacking, Inpainting and CMB Anomalies*
  - CASCA 2015, May 2015; McMaster University
- *Cosmology after Planck: Parameters, Power Spectra and Anomalies*
  - SHAO, Shanghai, March 2015; CAA, Shanghai, March 2015
- *ACT map Stacking*
  - ACTPol Collaboration Meeting, Princeton, February 2015
- *Stacking of Planck 2014 temperature, polarization and primordial curvature maps*
  - PLANCK 2014, The microwave sky in temperature and polarization, Ferrara, November, 2014
- *Stacking and CMB Anomalies*
  - COSMO14, Chicago University, August 2014
- *Inflationary Trajectories after Planck and BICEP2*
  - Simon Fraser University, April 2014
- *Chameleons in the Early Universe*
  - DAA, University of Toronto, Oct 2013
- *Second-order Boltzmann code and CMB Bispectrum*
  - CERN, Switzerland, June 2013
- *Second-order Boltzmann code and CMB Bispectrum*
  - SPP, CEA/Saclay, April 2013
- *Second-order Boltzmann code and CMB Bispectrum*
  - IAP, Paris, Feb 2013
- *Second-order Boltzmann code and CMB Bispectrum*
  - APC, Paris, Jan 2013
- *Second-order Boltzmann code and CMB Bispectrum*
  - COSMO 12, Sept 2012
- *Measuring the Features in the Primordial Power Spectrum*
  - Rencontres de Moriond, March 2012
- *Future LSS Survey and Inflation Models*
  - DAMTP seminar, Cambridge, Nov 2011
- *Future LSS Survey and Inflation Models*
  - The Dark Universe, Heidelberg, Oct 2011
- *Future LSS Survey and Inflation Models*
  - Seminar, IPhT CEA/Saclay, Oct 2011
- *The Dark Energy Trajectories in the post-EUCLID era*
  - CITA seminar, Toronto, April 2011

*The Art of Lattice and Gravity Waves from Preheating*

- IPhT/LPT COSMO meeting, Université Paris-Sud 11, Orsay, Dec 2010

*Dark Energy Trajectories and Cosmic Observables*

- CITA@25/Bond@60, CITA, University of Toronto, May 2010

*Primordial Power Spectra and Cosmological Observations*

- CITA-PI day, Perimeter Institute, Waterloo, Dec 2009

*Non-Gaussianity from Preheating*

- Graduate Student Seminar Talk, University of Toronto, Sept 2009

*Non-Gaussian Spikes from Chaotic Billiards in Inflation Preheating*

- Contributed talk at the Particle Cosmology workshop, CERN, Sept 2009

*Non-Gaussian Spikes from Chaotic Billiards in Inflation Preheating*

- Contributed talk at CASCA 2009

*Non-Gaussianity from Preheating*

- Contributed talk at the TEXAS Symposium 2008

*Parameterizing Dark Energy*

- Invited colloquium talk, Case Western Reserve University, Sept 2008

OUTREACH

Organizer: Lunar Eclipse View Party, Toronto, 27 Sept 2015

Telescope Operator, Nuit Blanche Exhibitions in Toronto, Oct 2009

Public talks in [Downtown Astronomy](#) monthly **public tour** organized by Department of Astronomy & Astrophysics at University of Toronto.

- *Modern Cosmological Observations* (Dec 2007)
- *The History of Gravity* (Dec 2006)

SKILLS AND  
HOBBYS

My native language is Chinese (Mandarin). I speak fluent English and a little bit French and Cantonese.

Rich parallel (MPI and OpenMP) programming experience in C and Fortran.

For “daily-life programming”, I am a pythonist (also use mathematica for analytic stuff).

Dynamic website design and html, javascript, and PHP + MySQL database programming. I am the builder of the Chinese chess end game online database (<http://www.ok667.net/zquang>).

Love to use Linux system.

Photo editing and video clipping (just for fun...I am not an artist).

Familiar with many statistical approaches: Markov Chain Monte Carlo simulation; Fisher Matrix analysis; and model selection through Bayesian evidence analysis.

I play the ancient Chinese game Go (KGS 3d) and almost all other popular board games. Ski, soccer, volleyball, cycling, rollerblading are my favorite sports.