

WONYL CHOI

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INTERESTS Theory of Computer Science, Interacting Particle Systems, Stochastic processes on Complex Networks, Algorithmic Game Theory, and General interests in Mathematical Physics and Philosophy of Science

EDUCATION

- Current Ph.D. Candidate in Computer Science (Supervisor: Prof. Peter Gacs),
Boston University, Boston, United States
- 2016 Elite-M.Sc. Theoretical and Mathematical Physics,
Ludwig-Maximilians-Universität München, Munich, Germany
Master Dissertation: *On Mathematical Representation of Linguistic Structure*
- 2013 BA Hon. Physics
University of Oxford, Oxford, United Kingdom
BA Dissertation: *The Sunyaev-Zel'dovich Effect*

RESEARCH EXPERIENCE

- Associate Researcher, TMAX Data, Sungnam, Korea. Feb. 2017 – Jun. 2017
- Research Assistant, Statistical Physics Theory Group. Korea Institute for Advanced Study, Seoul, Korea. Dec. 2011 – Sep. 2012, Aug. 2013 – Sep. 2013, Feb. 2014 – Mar. 2014, and Aug. 2014
- Research Assistant, Laboratory of Controlling Inflammatory and Immune Response. Department of Biological Science, Ajou University, Suwon, Korea. Jul. 2005 – Sep. 2005, Jul. 2006 – Sep. 2006, and Jul. 2007 – Sep. 2007

TALKS

- Invited Seminar, *Network Representation of Linguistic Structure*. Department of Physics, Pukyong National University, Korea. Nov. 2016.
- Student Speaker, *Curie's Principle and Time Symmetry in Classical systems*. 1st Munich Graduate Workshop in Mathematical Philosophy, Munich Center for Mathematical Philosophy, Ludwig-Maximilians-Universität München. Apr. 2015.
- Student Speaker, *Review on the Fluctuation Theorem*. Theoretical Physics Winter School, Seoul National University and Korea Institute for Advanced Study, Korea. Feb. 2012.

- Student Speaker, *Quantum Computation and its Realization*. St. Hugh's College Physics Society, University of Oxford, Apr. 2010.

CONFERENCES, & WORKSHOPS

- Agent Based Modelling in Philosophy. Center for Advanced Studies, Ludwig-Maximilians-Universitat Munchen. Dec. 2014.
- The 3rd KIAS Combinatorics Workshop. Korea Institute for Advanced Study, Korea, Mar. 2014.
- Reduction and Emergence in the Science. Center for Advanced Studies, Ludwig-Maximilians-Universitat Munchen. Nov. 2013.

AWARDS

- Award for Excellent Talk, Theoretical Physics Winter School, Seoul National University and Korea Institute for Advanced Study, Korea. Feb. 2012.
- Gold Medal, Korean Biology Olympiad, Sep. 2004.

WORK EXPERIENCES & SERVICES

- Asia Pacific Center for Theoretical Physics, Pohang, Korea.
 - Junior Journalist for News Letter, (2012 - 2013)
- Oxford University Korea Society, University of Oxford, Oxford, United Kingdom.
 - Committee Advisor (2011)
 - IT Officer and Webmaster (2009 – 2011)
 - Korean Language Program Coordinator (2009 – 2011)
 - Director of Korean Traditional Music Group 'Woori' (2010 – 2011)
- Mensa, Seoul, Korea
 - Member of Internal Publication Group (2008 – 2009)
 - Vice-President of Internal Group of Philosophy and Science
- Translator (2010 –)
 - Translated academic articles and industrial documents from English to Korean, and Korean to English.
 - Worked with numerous agencies and companies.
- Private Tutor (2008 – 2014)
 - Taught Introductory level of Calculus, Linear Algebra, Statistics, and Physics

- Helped students to prepare university entrance exams, American Mathematics Competition (AMC), and first courses in their undergraduate studies.
- Managed classes of size of 1 to 25 students of age range from 9th grade in high school to college freshman.

TECHNICAL SKILLS

- Programming Language: Confident in Python; Some working knowledge in MySQL, PHP, and Mathematica; Basic knowledge in C, C++, Fortran, UML.
- Source Code Control: Little experience with Git
- Operating Systems: Windows, Linux, Mac OS X.