

a) Personal

Name: Yosuke Kanai, Ph.D.

b) Education

2006-2009	Postdoctoral Research	University of California at Berkeley
2006	Ph.D. in Theoretical Chemistry	Princeton University
2003	M.A. in Theoretical Chemistry	Princeton University
2001	B.S. (Honors) in Chemistry	University of Tennessee at Knoxville

c) Professional experience

2011-	Professor (2022-), Assoc. Professor (2017-2022), Asst. Professor (2011-2017) Director of Undergraduate Studies (2024-) Department of Chemistry Adjunct Professor (2022-) Department of Physics and Astronomy University of North Carolina at Chapel Hill
2016-	Graduate Faculty (Term member) Department of Chemistry Duke University
2011-2014 2009-2011	Visiting Scientist Lawrence Fellow, Quantum Simulations Group Condensed Matter and Materials Division Lawrence Livermore National Laboratory
2006-2009	BNNI Postdoctoral Scholar (Advisor: Prof. Jeffrey C. Grossman – currently at MIT) Berkeley Nanosciences and Nanoengineering Institute (BNNI) University of California at Berkeley
2001-2006	Graduate Student Researcher (Advisors: Prof. Annabella Selloni / Prof. Roberto Car) Department of Chemistry Princeton University
1999-2001	Undergraduate Student Researcher (Advisor: Prof. Robert J. Hinde) Department of Chemistry University of Tennessee at Knoxville

d) Honors

2024 Fellow of the American Physical Society
2022 Pariser Global Lectureship for Innovation in Physical Sciences, Sigma Xi Society
2016-2021 INCITE Award, Department of Energy
2016 Outstanding Junior Faculty Award in Computational Chemistry, American Chemical Society

2013 R. J. Reynolds Junior Faculty Development Award, UNC
2012 ACS-PRF Doctoral New Investigator Award
2009-2011 Lawrence Fellow, Lawrence Livermore National Laboratory
2006-2009 BNNI Postdoctoral Scholar, University of California at Berkeley

e) Publications

See www.kanai-group.org

f) Professional Service

- FHI-aims Advisory Board member, MS1P, 2023-
- Graduate Faculty (term member), Dept. of Chemistry, Duke University, 2016-
- Lecturer, ECOMATES School on In Silico methods for catalysts design, Trinity College Dublin, 3/10-3/14/2025
- Editorial Advisory Board member, Journal of Physical Chemistry Letters (ACS), 2019-2024
- Organizing committee member (local organizer), American Conference on Theoretical Chemistry 2024, 6/17-21/2024
- Organizer/Lecturer, “2021 HybriD3 Theory Training Workshop”, Online, 1/19-21/2021
- Organizer/Lecturer, “2018 HybriD3 Theory Training Workshop”, Durham, NC, 9/28-29/2018
- Co-lead for IRG3, Research Triangle MRSEC, 2016-2017
- Member, Theory Facility Proposal Study Panel, Molecular Foundry, LBNL, 2011-2014
- Organizer, “High-Performance Computing and Electronic Structure Calculations in Materials Research” Japan Society of Applied Physics-Materials Research Society Joint Symposia, Kyoto, Japan, 9/16-20/2013
- Organizing Committee member for Solar Energy + Technology, Conference Chair, “Solar Hydrogen and Nanotechnology VIII” SPIE Optics + Photonics Meeting, San Diego, CA, 8/25-29/2013
- Director, Computational Chemistry and Materials Science Summer Institute, LLNL, 2009-2011
- Instructor: CECAM Spectra2010 Tutorial, SISSA (International School of Advanced Studies), Italy, 7/23-31/2010
- Lecturer/Mentor, Workshop on Global Innovation and Training of Young Leaders, Osaka University San Francisco Center, 2010, CA, USA
- Panel Member, DOE workshop for “Computational Research Needs in Alternative & Renewable Energy”, 9/19-21/2007, Rockville, MD
- Technical Coordinator, *Berkeley PV Idea Lab* (bi-weekly experiment-theory discussion meetings on photovoltaic research), U.C. Berkeley, 2006-2009
- Proceeding editor for *MRS proceedings* and *Proceedings of SPIE*
- Merit reviewer for *CINECA* (Italy)
- PhD thesis examiner for Indian Institutes of Science Education and Research (India)
- Proposal reviewer for *Department of Energy*, *National Science Foundation*, *ACS Petroleum Research Fund*, *Leverhulme Trust* (UK), and *Netherlands Organization for Scientific Research (NWO)*.
- Manuscript reviewer for *J. Am. Chem. Soc.*, *J. Chem. Phys.*, *J. Phys. Chem. Lett./A/B/C*, *ACS Nano*, *Nano Lett.*, *Phys. Rev. B*, *J. Phys. D*, *Chem. Phys. Lett.*, *App. Phys. Lett.*, *Semi. Sci. Tech.*, *Appl. Surf. Sci.*, *Surf. Sci.*, *Int. J. Quant. Chem.*, *PNAS*, *Chem. Comp. Phys. Comm.*, *Eur. Phys. J. B*, *Can. J. Phys.* and *Nature Comm.*