

Kartik Sankaran Ayyer

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Born: February 9, 1988 – Bharuch, Gujarat, India

Nationality: Indian

Education

- 2014 PhD in Physics, Cornell University
- 2012 MS in Physics, Cornell University
- 2009 BTECH in Engineering Physics, Indian Institute of Technology (IIT) Delhi

Research Experience

- 2018– Max Planck Research Group Leader, MPSD, Hamburg, Germany
- 2014–18 Postdoctoral Research Associate, CFEL, DESY, Hamburg, Germany
Group Leader: Henry Chapman
- 2010–14 Graduate Research Assistant, Cornell University, Ithaca, NY, USA
Advisor: Veit Elser
Title: Reconstructing Images from Sparse Data
- 2008–09 Bachelor's Thesis, IIT Delhi, New Delhi, India
Advisor: J.P. Singh
Title: Study of carbon nanotube-based optomechanical actuators
- 2008 Summer project, Free University, Berlin, Germany
Advisor: Christiane Koch
Title: Generation of ultracold Rb₂ molecules by photoassociation
- 2007 Summer project, University of Nottingham, Nottingham, UK
Advisor: Peter Beton
Title: Molecular dynamics simulation of fullerene clusters on a gold substrate

Honors & Awards

- 2016 FEL Science and Applications Award for Young Researchers
- 2005–09 IIT Delhi Academic Excellence Award (5 semesters)
- 2005 Gold Medal, Indian National Physics Olympiad
- 2005 Gold Medal, Indian National Chemistry Olympiad

Invited Talks

- 2018 LCLS-II-HE Advanced X-ray Methods and Instrumentation Workshop, Menlo Park, CA, USA (October)
- 2018 5th Ringberg Workshop on Structural Biology with FELs, Ringberg, Germany (February)
- 2017 Center for Ultrafast Imaging (CUI) Annual Meeting, Hohwacht, Germany (October)
- 2017 MIT-PIER Workshop, Boston, MA, USA (January)
- 2016 Department Seminar, Center for Bioimaging Sciences (CBIS), National University of Singapore, Singapore (November)
- 2016 Helmholtz Virtual Institute Annual Meeting, Berlin, Germany (September)
- 2016 Science at FELs, Trieste, Italy (September)
- 2016 RACIRI Summer School, St. Petersburg, Russia (August)
- 2016 Gordon Research Conference on Diffractive Methods in Structural Biology, Lewiston, ME, USA (July)
- 2016 Coherence 2016, St. Malo, France (June)
- 2016 3rd Ringberg Workshop on Structural Biology with FELs, Ringberg, Germany (February)
- 2016 7th Ringberg Workshop on Physics with FELs, Ringberg, Germany (February)
- 2015 Single Particle Imaging Workshop at LCLS Users' Meeting, Menlo Park, CA, USA
- 2015 29th European Crystallography Meeting (ECM), Rovinj, Croatia (July)
- 2014 Coherence 2014, Evanston, IL, USA (September)
- 2014 American Crystallographers Association (ACA) Meeting, Albuquerque, NM, USA (May)
- 2014 CLASSE Departmental Seminar, Cornell University, Ithaca, NY, USA (March)
- 2013 Gordon Research Conference on X-ray Science, Easton, MA, USA (August)

Teaching (Cornell University)

- 2014 Teaching Assistant for Physics III: Oscillations, Waves and Quantum Physics, Spring 2014
- 2012 Teaching Assistant for Modern Experimental Optics Laboratory, Fall 2012
- 2011 Teaching Assistant for Fundamentals of Physics II for Pre-medical students, Spring 2011
- 2010 Teaching Assistant for Physics III: Oscillations, Waves and Quantum Physics, Spring, Summer and Fall 2010
- 2009 Teaching Assistant for Physics I: Mechanics, Fall 2009