

Dr. Alexander Ako Khajetoorians



I have specialized in utilizing cryogenic scanning tunneling microscopy to address a variety of surface science problems from growth of thin films to ultimately characterizing the magnetism of atomic impurities on surfaces. For the last four years, at Hamburg University in the group of Roland Wiesendanger, I have developed methods which combine atomic manipulation and spin-resolved STM techniques to probe the magnetism of atomic impurities on metallic and semiconducting substrates. I completed my PhD in 2008 at the University of Texas at Austin, after acquiring my bachelor's degrees in Physics and Applied Mathematics from UC Berkeley in 2002. In 2012, I was awarded the Gerhard Ertl Prize from the German Physical Society.

Employment History

- (since 2008) Research Associate: Group of Prof. Roland Wiesendanger; Institute of Applied Physics, University of Hamburg; Post-doctoral Researcher from (2008-2010)
- (2008) Post-doctoral Researcher: Group of Prof. Chih-Kang Shih; Department of Physics, University of Texas, Austin
- (2006-2008) NSF-IGERT Trainee: Group of Prof. Chih-Kang Shih; Department of Physics, University of Texas, Austin
- (2004-2006) Research Assistant: Group of Prof. Chih-Kang Shih; Department of Physics, University of Texas, Austin
- (2000-2002) Research Student: Group of Prof. Mike Crommie; Department of Physics, University of California, Berkeley

Graduate/Undergraduate Education

- (2002-2008) Ph. D. Physics: Department of Physics, University of Texas at Austin; Supervisor: Prof. Chih-Kang Shih Thesis: "Alkali adsorbates on quantum thin metal films"
- (2008) Graduate Portfolio Certificate: Center for Nano and Molecular Science and Technology

(CNM)

- (1998-2002) Bachelors of Arts in Physics: University of California, Berkeley
- (1998-2002) Bachelors of Arts in Applied Mathematics: University of California, Berkeley

High School

- (1998) High School Diploma: Laguna Beach High School

Awards & Recognitions

- (2012) Gerhard Ertl Young Investigator Award (DPG)
- (2008) 1st Place/Best Spring Dissertation Presentation: CNM Portfolio Program
- (2006-2008) National Science Foundation "IGERT" Traineeship (fellowship)
- (2004) CNM Nano-night Best Poster Presentation Award
- (2002) Dean's Scholar Award: College of Natural Sciences