

Asia Sarycheva

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A.J. Drexel Nanotechnology Institute

Research interests: Raman spectroscopy of MXenes, solvent-MXene interactions, intercalation and MXenes, Surface-enhanced Raman spectroscopy, polarized Raman spectroscopy

Education

2016 – present **Ph.D. Candidate**
Department of Material Science and Engineering, Drexel University (Philadelphia, PA),
Anticipated Graduation Spring 2021

2013 – 2015 **M.Sc.**
Department of Material Science, Moscow State University (Russia)
Graduated with honor (top 5%)

2009 – 2013 **B.Sc.**
Department of Material Science, Moscow State University (Russia)

Research Experience

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2016 – present **A.J. Drexel Nanotechnology Institute, Drexel University (Philadelphia, PA)**
Super-user of Raman spectrometer

Summer 2018 **Korean Advanced Study Institute (KAIST) National Nanofabrication Center (NNFC) (Daejeon, South Korea)**
Research intern

2015 – 2016 **Elar, Inc, (Saint-Petersburg, Russia)**
Chemical engineer,

2010 – 2015 **Moscow State University (Moscow, Russia)**
Bs/Ms researcher
Advisor: Dr. Eugene Goodilin

Spring 2014 **Laboratoire Interdisciplinaire Carnot de Bourgogne, University of Bourgogne (Dijon, France)**
Research intern
Advisor: Dr. Igor Bezverkhy

Summer, 2014 **Laboratory of Industrial Chemistry, University of Bochum (Bochum, Germany)**
Research intern
Advisor: Dr. Wolfgang Grünert

Awards

2020 **People's choice at 3MT (3 Minute thesis competition) (Philadelphia, PA)**

2020 **Drexel College of Engineering Joseph and Shirley Carleone Fellowship**

2019 **Drexel College of Engineering Common Good award nomination (Philadelphia, PA)**

2018, 2019 **Material Science and Engineering Volunteer Leader Award, (Philadelphia, PA)**
○ Recognition of outreach volunteer activity done at Drexel and in Philadelphia to engage a broad auditory in material science

2018 **People's choice at 3MT (3 Minute thesis competition) (Philadelphia, PA)**

2018 **Best poster award "IEEE DIG Conference" Drexel University (Philadelphia, PA)**

2015 **Russian Academy of Sciences award for young scientists, (Moscow, Russia)**

- o Recognition of the best young researcher in Material Science in 2015

Teaching

- 2017- 2018 Teaching Assistant for “Introduction to Material Science” (**ENG 220**)
- 2018 Teaching assistant for “Teaching assistant orientation class” (**GRAD T580**)
- 2010 – 2016 Tutoring high school students in Moscow, Russia

Mentoring

- August 2019 – present Mentoring Master student Erasmus Mundus program
MXene soft robots
- August 2019 – present Mentoring a High School student
MXene silkworm farm
- Sept. 2017 – June 2018 Drexel College of Engineering Senior Design Project Mentor
MXene loud speakers
- Sept. 2017 – June 2018 Drexel College of Engineering Senior Design Project Mentor
MXene triboelectric nanogenerator
- Nov. 2017 MRS High School Mentor
- Summer 2017 Drexel STAR Scholar Summer Research Mentor
- 2013 – 2015 Mentoring Undergraduate student during BSc program in Moscow, Russia

Volunteering

- June 2019 Interim director of ASM Materials Camp (Philadelphia, PA)
- 2018 – 2019 President of MRS (Material Research Society) Drexel Chapter
- 2017 – 2018 Organization Committee of “Materials Camp” (Philadelphia, PA)
- 2017 – 2018 Organization committee of events at MRS Drexel Chapter
- 2017 – 2019 Volunteer – Council Rock North High School Visit
- 2018 Volunteer at T.M. Peirce Elementary School’s Science Program
- 2017, 2018 Philly Materials Day Volunteer
- June 2017 Volunteer Pfizer STEM Career Day at the Academy of Natural Sciences
- July 2017 Volunteer at Philadelphia Science Carnival
- May, 2015 Volunteer at middle school in Darjeeling, India

Professional societies

- MRS (Material Research society), Drexel chapter, 2018 – 2019 president; 2017 – 2018 secretary
- MAGNET (Material Engineering graduate student network), Drexel chapter, 2017 – 2018 secretary