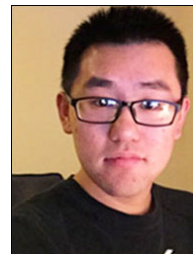


CURRICULUM VITAE

Personal Information

Full name: Ren Qiu
Gender: Male
Date of birth: 1993-03-29
Nationality: Chinese
Address: Fysikgränd 3, 41296
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Education

Master degree in **Applied Physics (2015 - 2017)**
Chalmers University of Technology, Gothenburg, Sweden
School: Department of Physics
GPA: **5** (five-grade marking system)

Bachelor degree in **Materials Physics (2011 - 2015)**
Shandong University, Jinan, China
School: School of Material Science and Engineering
GPA: **90.48 (A+)** (hundred-grade marking system)

Research Experience

Thermal *in situ* TEM experiment on nanoscale indium islands - estimation of electron beam heating effect (**2016/09 - 2017/08**).

High resolution transmission electron microscope (HRTEM) imaging study of topological insulator bismuth telluride thin films (**2016/08 - 2016/09**).

Automatic segmentation and 3D reconstruction of porcine vertebrae based on computed tomography (CT) scanning (**2016/04 - 2016/06**).

Fabrication of sharp and smooth gold tips with radii around 10 nm through electrochemical etching (**2015/11 - 2016/06**).

Algorithm design for identification of chain-like atomic structures in disordered alloy systems based on graph theory (**2014/11 - 2015/06**).

Thermodynamic analysis of structure and size estimation of atomic cluster in liquid metal (**2014/03 - 2014/06**).

Visiting Internship

Beijing National Laboratory for Condensed Matter Physics, Chinese Academy of Sciences (**2014/08**).

Shanghai Institute of Ceramics, Chinese Academy of Sciences (2014/08).

Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences (2014/08).

Dalian Institute of Chemical Physics, Chinese Academy of Sciences (2013/07).

Shenyang Metal Material Institute, Chinese Academy of Sciences: Material Processing Division and Solid Atomic Imaging Division (2013/07).

Working Experience

Amanuens student in Chalmers University of Technology, Physics Department, Eva Olsson Group (2015/11-2016/05).

Project assistant at Chalmers University of Technology, Department of Physics, Materials Microstructure Division(2016/06-2016/08).

Scholarships

Second-year increase on Avancez Scholarship (2016/10)

Adlerbert Foreign Student Hospitality Foundation (2016/04)

Research Assistant Funding of Area of Advance Material Science (2016/03)

Avancez Scholarship of Chalmers University of Technology (2015/03)

Chinese National Scholarship (2014/12)

Skills & Qualifications

Programming: Fortran(skilled), Matlab(skilled), C/C++(basic)

Experimental:

Optical microscope

Potentiostat for Electrochemical Etching

FEI Titan 80-300 Transmission Electron Microscope

Tecnai T20 Transmission Electron Microscope

Ultra 55 Field Emission Gun Scanning Electron Microscope

Quanta 200 Field Emission Gun Environmental Scanning Electron Microscope

Conference Experience

The community building activity of Area of Advance Nanoscience and Nanotechnology (2016/08). Poster title: *A Reproducible Method for Fabricating Sharp and Smooth Gold Tips having Radii around 10 nm.*

Publications

Ren Qiu, *et al.* *Sharp and Smooth gold tip fabrication through Electrochemical Etching* (In manuscript).

Ren Qiu, *et al.* *Thermal in situ TEM experiment on nanoscale indium islands - estimation of electron beam heating effect* (In manuscript).