

Ho-Zhen D. Chen

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UNITED STATES CITIZEN

EDUCATION:

University of Massachusetts Amherst, Amherst, MA Fall 2015-Spring 2017
PhD, Civil and Environmental Engineering **GPA: 3.23 /4.0**

University of Michigan, Ann Arbor, MI Graduated: May 2015
Master of Science, Civil and Environmental Engineering **GPA: 3.3/4.0**

Rensselaer Polytechnic Institute, Troy, NY Graduated: May 2011
Bachelor of Science, Mechanical Engineering **GPA: 3.37/4.0**
Dean's List

Tampere University of Technology, Tampere, Finland Spring 2010 (exchange)

Greenfield Community College, Greenfield, MA Graduated: June 2008
Associate of Science, General Engineering **GPA: 3.87/4.00**
Dean's List

RESEARCH EXPERIENCE:

Pan-Arctic Assessment of Hydraulic Geometry, Dr. Gleason Sep 2016- Sep 2017
University of Massachusetts Amherst
River width extraction via Google Earth Engine (GEE) and estimation of at-a-station hydraulic geometry.

- AGU poster presentation: A pan-Arctic Assessment of Hydraulic Geometry

Algal Bloom Detection through Remote Sensing, Dr. Park Aug 2015-May 2016
University of Massachusetts Amherst,
Algal Bloom detection in the Arabian/Persian Gulf region using MODIS Aqua/Terra Images. Time series analysis of satellite images for estimation of bloom propagation to assist in early warning system for local desalination plants.

Bio-Station Wireless Network, Dr. Kerkez Aug 2014-Aug 2015
University of Michigan, Civil and Environmental Engineering,
Redesign and setup of wireless sensor network. Power supply/storage design, hardware assembly, electronic wiring and software programming, radio transmission setup, and data management.

Huron River Water Sensor, Dr. Kerkez Sep 2013-Aug 2014
University of Michigan, Civil and Environmental Engineering,
Design and assemble of water depth, velocity sensor. Learning of basic programming language (Python, C++.)

WORK EXPERIENCE:

Research assistant University of Massachusetts, Amherst, MA Sep 2016- Sep 2017
River width extraction via Google Earth Engine (GEE) and estimation of at-a-station hydraulic geometry.

Research assistant University of Massachusetts, Amherst, MA Sep 2015- Sep 2016
Remote Sensing using MODIS Aqua/Terra images for detection of harmful algal bloom in the Arabian/Persian Gulf.

Research assistant University of Michigan, Ann Arbor, MI Aug 2014-Aug 2015
Design and deployment of low-powered, durable, low-maintenance wireless sensor network (WSN)

Engineer, HAITEC Co., Ltd, New Taipei City, Taiwan Oct 2011-Jul 2012
CAD design and analysis on parts for electric vehicles. Occasional meetings with suppliers and frequent assembly plant visit.

Intern (Laboratory technician), Atlantic Testing Laboratory, Troy, NY May 2009-Nov 2009
Perform safety test on construction materials. Scheduled work plans with co-workers and daily testing report to supervisors.

Peer Tutor, Greenfield Community College, Greenfield, MA Jul 2007 – Dec 2007
Communicated with people from all walks of life through scheduled meetings to help student successfully pass courses.

SKILLS:

Software: Google Earth Engine, Google Earth, SeaDAS, ENVI, ArcGIS, Matlab, SolidWorks, Catia, Maple, Mathematica, EES, Minitab and basic HTML.

Programming: R, JavaScript, C++, Python, Visual Basic, and UNIX programming language

Language: Understand traditional Chinese (lived in **Taiwan** for 17 years.)

ACTIVITIES & HONORS

American Society for Engineering Education	2013-Present
Association of Environmental Engineering & Science Professors	2013-Present
American Society of Civil Engineers	2015-present
American Water Works Association	2015-present
American Geophysical Union	2015-present
Water Environment Federation	2015-present