Haochen Ye

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EDUCATION

Undergraduate:

Shanghai Jiao Tong University (SJTU) Shanghai, China GPA: 3.3/4.0 2012.09 – 2016.08
UM-SJTU Joint Institute (JI) Electrical and Computer Engineering (ECE)

University of Michigan (UM) Ann Arbor, USA GPA: 3.8/4.0 2014.09 – 2016.05
College of Engineering (CoE) Climate and Space Science and Engineering (CLaSP)

Graduate:

University of Michigan Ann Arbor, USA GPA: 4.0/4.0 2016.09 – 2017.12
College of Engineering CLaSP, Applied Climate, Master of Engineering

Pennsylvania State University State College, USA GPA: 3.7/4.0 2018.06 – now
College of Earth and Mineral Sciences Geosciences, Ph.D

HONOR

CoE Dean's honor list (Fall 2014, Win 2015, Fall 2015, Win 2016, Fall 2016)

EXPERIENCE

Students' Robotic Innovation Lab (JI) 2013.05 – 2014.08

- In charge of coding part of a robotic cleaner project.
- Building an Autostereoscopic device.
- Teaching middle school students basic circuits knowledge.

UM Great Lakes Simulation Multidisciplinary Design Program 2015.01 – 2015.12

- Using WRF (Weather Research and Forecasting) to simulate mesoscale storm in Great Lakes.
- Evaluating different dynamical schemes for boundary layers.

Great Lakes Climate Ensemble Research Team 2017.01 – 2017.12

- Research project in Great Lakes Integrated Sciences & Assessments (GLISA) program.
- Data processing and climate model ensemble based on Python and Climate Data Management System.

MAIN RELEVANT COURSES

Math: Calculus, Discrete Mathematics, Differential Equations and Complex Analysis, Probability and Statistics
ECE: Introduction to Circuits, Data Structure, Signal and System, Computer Design, Semiconductor
Climate science: Geophysical Fluid dynamics, Radiative transfer, Boundary Layer Meteorology, Remote Sensing

Penn state: Hydrogeology, Issues in Geosciences, Bayesian studies, Risk analysis in the Earth Sciences, Time Series analysis, Math Modeling in Geosciences

PUBLICATIONS

Ye H, Nicholas RE, Roth S, Keller K (2021) Considering uncertainties expands the lower tail of maize yield projections. PLoS ONE 16(11): e0259180. https://doi.org/10.1371/journal.pone.0259180

COMPUTER SKILLS

Programming language: C, C++, MatLab, Python, R
Applications: Mathematica, Origin, LaTex, ArcGIS

LANGUAGE

Chinese (Native)
English (Fluent)