# Yu Han

*Study the nature of things*

## EDUCATION

**Phd student, research assistant in urban and regional planning** 2016-Now
*University of Florida, Major GPA: 3.7/4.0*

Courses taken: Advanced machine learning, Network Science and Application, Advanced Transportation systems

Advanced system programming, Deep learning, Big data ecosystem

Research interests: Spatial-temporal models, Multi-agent systems, Big data and geographical information system applications

**MSc. in Civil and Environmental Engineering** 2012-2014
*Carnegie Mellon University, Major GPA: 3.5/4.0*

Courses: Mathematical Modeling of Environmental System, Air Quality Engineering, Regression Analysis, Probability & Estimation Method in Engineering System, GIS and database system etc.

**BSc. Environmental Engineering** 2008-2012
*Beijing Institute of Technology, Major GPA: 3.4/4.0*

## WORK EXPERIENCE

**Research Assistant** 2014-2016
*Tsinghua University, Full-time*

Research assistant at school of environment, advisor: Haifeng Jia

Classification of historical land use data obtained from USGS website using hybrid classification methods;

Developed an integrated urban land use change simulation model using markov, logistic models and cellular automata;

Conducted scenario analysis to show how planning strategies can influence urban development of Foshan;

## SKILLS

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|---|---|
| *Languages* | English (fluent) |
| *Software* | Python, *C++*, Matlab, TensorFlow, *Quantum GIS*,*ArcGIS* R, *Java*, *Linux*, MySQL, *Postgre*, LaTeX |

## PUBLICATIONS

*Han, Y., Jia, H., Simulating the spatial dynamics of urban growth with an integrated modeling approach: A case study of Foshan, China. Ecological Modeling, 2016.*

Software Development Certificate: *A land use change simulation system based on multi-criteria evaluation. Copyright Owner: Tsinghua University. Developer: Yu Han, Haifeng Jia, Weize Song, 2015*