Jinghu Hu

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EDUCATION

DEPT. THERMAL ENGINEERING, TSINGHUA UNIVERSITY 2016-present, BEIJING

- M.S. in Thermal Engineering expected in July, 2018
- TA for undergraduate/graduate course Numerical Heat Transfer
- Main research topic: high pressure underexpanded hydrogen jet flow concentration profiles

B.Eng. in ENVIRONMENTAL ENGINEERING, TSINGHUA UNIVERSITY 2012-2016, BEIJING

- Grade Point Average: 91.78/100. Ranking: 4/82
- Enrolled in the competitive Global Environmental Program (10 out of 82)
- Project Thesis: Numerical optimization on direct contact evaporator for leachate treatment

VENICE INTERNATIONAL UNIVERSITY Feb.2015-May.2015, VENICE

RESEARCH AND PROJECT EXPERIENCE

Research group, Dept. Thermal Engineering, Tsinghua University Sept.2015-present, BEIJING

- Focus: underexpanded hydrogen jet concentration profiles experiments and simulations
- designed and built improved extreme high pressure gas experiment systems
- derived underexpanded jet concentration profiles with various geometries
- improved and validated reduced numerical models for underexpanded jet simulation
  - reduced the computational time from 1~2 weeks to <30 mins
  - improved accuracies: fixed concentration over-prediction; bridged data-simulation gap
- 2 accepted conference papers
- 1 submitted journal full paper to *International Journal of Hydrogen Energy*

Research group, School of Environment, Tsinghua University Dec.2015-Jun.2016, BEIJING

- Focus: optimization of landfill leachate evaporator with simulation
- designed internal gas guiding slides to enhance evaporator heat transfer based on simulation
- design structure approved and applied in real improved leachate concentrate evaporator

Class Project, Venice International University Feb.2015-May.2015, VENICE

- Focus: predicting eutrophication level of Chesapeake Bay using satellite data and ANN models
- derived accurate models for predicting chlorophyll level in region with multi-layer network model based on satellite data and local hydrology data

Text-to-speech (TTS) team, Samsung Research Center Beijing Jul.2016-present, BEIJING

- Cooperate developer of TTS Engine for Samsung voice assistant Bixby: online in Dec, 2017
- developed and deployed multitask deep learning models for TTS text analyzer engine

HONORS

Academic Outstanding scholarship (top 3%), Tsinghua University Each undergraduate years
Honor graduate student (top 3~5%), Tsinghua University Jun. 2016, BEIJING
Outstanding intern developer, Samsung Research Center Beijing Aug. 2017, BEIJING

LANGUAGES AND OTHER SKILLS

- TOEFL : 111(with Speaking 23)
- GRE: 162(Verbal)+170(Quantitive)+3.5(Analytical Writing)
- Developing: C/C++/Python/MATLAB
- Project management: SVN/Git
- Tensorflow/Keras
- Basic expressions in Spanish/Japanese
- ANSYS