Wonjun Lee

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EDUCATION

B.S. in Mathematics from **George Mason University**   Fairfax, Virginia | Aug 2010 – May 2015
Concentration in **Applied Mathematics** and **Mathematical Statistics**
GPA: 3.84, *Magna Cum Laude*
Honors: Phi Beta Kappa, Phi Kappa Phi, Dean's List

Massive Open Online Courses (MOOCs)
Udacity Self-Driving Car Engineer Nanodegree   Nov 2016 – Present
Computer vision, deep learning, and localization for autonomous car engineering
Udacity Data Analyst Nanodegree   Apr 2016 – Jul 2016
Statistics, machine learning, data visualization, and A/B testing.

RESEARCH INTERESTS

- Numerical linear algebra
- Numerical methods for partial differential equations
- Computational topology
- Computational biology and physics
- Inverse problems
- Fluid dynamics

RESEARCH EXPERIENCE

Research Experience for Undergraduate (REU)   May 2013 – Aug 2014
Undergraduate Research in Computational Mathematics (URCM) sponsored by the National Science Foundation (NSF).
"*Reconstruction of video using Singular Value Decomposition (SVD) with delays of time frames*"

AWARDS, ACTIVITIES, AND SCHOLARSHIP

William Lowell Putnam Mathematical Competition, Scored 20   Dec 2014

Outstanding Presentation Award   Jan 2014
Won an Outstanding Presentation Award at the Joint Mathematical Meetings held in Baltimore, MD.
"*Reconstruction of video using SVD with delays of time frames.*"

Accepted to New York University College of Dentistry   Dec 2012

Jean Wu Distinguished Undergraduate Scholarship   Aug 2010
Received from the Volgenau School of Information Technology and Engineering at George Mason University

INVITED TALKS

"Reconstruction of video using SVD with delays of time frames"   May 2014
College of Science Undergraduate Research Colloquium, George Mason University

"Reconstruction of video using SVD with delays of time frames"   Jan 2014
Joint Mathematical Meetings, **Baltimore, Maryland**

"Reconstruction of video using SVD with delays of time frames"   Nov 2013
Student Research Talks, George Mason University

"Reconstruction of video using SVD with delays of time frames"   Sep 2013
Shenandoah Undergraduate Mathematics and Statistics Conference, James Madison University

TEACHING EXPERIENCE

Mentor of Udacity Self-Driving Car Engineer Nanodegree   Dec 2016 – Present
- Assist students to understand the course materials and finish their autonomous car projects.
- Teach deep learning (convolutional neural networks, ReLU, etc) and computer vision (Canny edge, Sobel operator, Hough transform, etc)

Private Tutor   Fairfax, Virginia | Dec 2009 – Present
- High school sciences (AP Calculus, AP Physics, and AP Chemistry)
- College mathematics (Linear Algebra, Differential Equations, Probability, and Numerical Analysis)

PROFESSIONAL EXPERIENCE

Cheiron, Inc – *Actuarial Analyst*   McLean, Virginia | Feb 2015 – Sep 2016
- Cleaned and Processed the pension databases from 15 clients per month.
- Prepared valuation reports using actuarial assumptions and stochastic models.
- Created a Microsoft VBA application that generates prices for benefit plans under the user-defined assumptions.

SKILLS

Languages: Matlab, Python, R, SAS, JavaScript, C, HTML, CSS
Frameworks/Libraries: Tensorflow, Keras, OpenCV, Spark, Hadoop, scikit-learn, MongoDB, D3.js
Other: Latex, Git/GitHub

Proficient in **Korean**