




Andrew T. Van Gilder
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Profile: Data Scientist with Analytics Master's (in progress), Applied Mathematics B.S., Chinese Language B.A. (Digital Art and Computer Science minors) with exceptional mentorship experience

EDUCATION	<div>Northeastern University 2018 - <i>Master's of Professional Studies</i> Master's: Analytics</div> <div>University of Wisconsin-Madison 2013 - 2017 <i>Bachelor of Science</i> Majors: Applied Mathematics (Computational Methods) and Chinese Language Certificates: 4D/Multimedia Art and Computer Science GPA: 3.23</div> <div>Nankai University Summer 2016 Intensive Chinese Language Program in Tianjin, China GPA: 4.0</div>
WORK EXPERIENCE	University of Wisconsin Student-Athlete Tutor (2016-2017 Academic Year) -Tutored and mentored student-athletes in Multivariate Calculus, Linear Algebra, Physics University of Wisconsin Summer Program Mentor (Summer 2017) -Led large groups of international students (30+) through program content. -Program content, developed by supervisor and me, included academic, social, field research events. Private Tutor (9/2009-Present) -Provides personalized lesson plans for students (Grade 5-College Senior) in topics in advanced Math. -Coached and participated on several state-competition-winning Math, Physics, and Science teams. -Has tutored dozens of students individually and coached hundreds of students in teams.
TECHNICAL SKILLS	Programming Skills: Python: train random forest regression with 60,000 diamond sales data, predicts cost with ~95% accuracy -calculate tf-idf dictionary for transcripts of popular T.V. series to analyze similarities and differences in characters' vocabulary Java: construct decision trees for classification of image data and for AI chess player -use feed-forward neural network for regression to predict Facebook post reach -build naïve bayes classifier to predict genre of Shakespeare's plays Matlab: built Harris corner detector for images in OpenCV JavaScript: create shading algorithm for 3D geometry using OpenGS in the canvas, double-pass rendering for "jumbotron" effect using OpenGS in canvas SQL, Microsoft Access: Create operational web form for database manipulation and entry Flask: web-based quadratic equation solver app HTML5, CSS: some limited web application and webpage design including for my personal webpage, hosted on github: https://andrewvg23.github.io/ github with selected project work: https://github.com/AndrewVG23
OTHER RELEVANT SKILLS	Multimedia Skills: Adobe Photoshop: logo and pamphlet design. Portrait touch up and surreal artwork. Rhinoceros 3D: Three dimensional designs based on schematics. Design detailed mechanical items. Autodesk Maya: model, shade, rig and animate character with full walk-cycle in 1.5 minute high-definition video rendered in V-ray. (https://www.youtube.com/watch?v=oeB0tWCiMRY) -Script with Python to generate geometry for scenes -Advanced V-ray shading techniques Language Skills: Mandarin Chinese (Limited Working Proficiency). I regularly converse with friends in Mainland China and Taiwan.