

MADELYN ELIZABETH GAUMER

EDUCATION

HARVEY MUDD COLLEGE, CLAREMONT, CA GPA: 3.36	MAY 2019
Mathematics Major	
Coursework: Discrete Mathematics, Principles of Computer Science, Multivariable Calculus, Inter. Linear Algebra, Inter. Differential Equations, Data Structures/Program Development, Real Analysis, Inter. Probability, Abstract Algebra, Computability and Logic, Algorithms, Computer Science for Insight, Numerical Linear Algebra	
PEKING UNIVERSITY 北京大学, BEIJING, CHINA GPA: 4.0	SUMMER 2016
Coursework: Inter. Readings in Chinese, Inter. Spoken Chinese, Language and Culture Practicum, Issues in Contemporary Chinese Society	
KING'S COLLEGE LONDON, LONDON, ENGLAND GPA: 3.25	SPRING 2018
Coursework: Representation Theory, Partial Differential Equations	

INTERNSHIPS AND RESEARCH EXPERIENCE

HARVEY MUDD COLLEGE, DEPARTMENT OF MATHEMATICS	2018 – 19
- Tested for uniformity on circular probability distributions using neural networks and analyzed results compared to traditionally used group of statistical tests	
MICROSOFT, SHAREPOINT EXPERIENCES ENGINEERING, SOFTWARE INTERN	SUMMER 2018
- Built email notification feature into the notification system on SharePoint	
MICROSOFT, ONEDRIVE SYNC UX, EXPLORER INTERN	SUMMER 2017
- Built dynamically populating context menu within the sync desktop client's activity center and collaborated in a team environment	
HARVEY MUDD COLLEGE, DEPARTMENT OF COMPUTER SCIENCE	SUMMER 2015
- Improved robotic autonomous navigation by developing software dependent on the use of live video feed and the rendering of a 3D environment as part of a team	
HARVEY MUDD COLLEGE, DEPARTMENT OF COMPUTER SCIENCE	SUMMER 2014
- Created, tested, and revised a computer science curriculum for students in the middle years as part of a team	

PAPERS AND PRESENTATIONS

- M. Girard, A. Hagen, **M. Gaumer**, et al. "Uranium Oxide Synthetic Pathway Discernment through Unsupervised Morphological Analysis" (In Review)
- **M. Gaumer**, "Using Neural Networks to Classify Discrete Circular Probability Distributions", *Scholarship at Claremont*, 2019, https://scholarship.claremont.edu/hmc_theses/226/
- Presented at SoCAMS Poster Session, Pasadena, CA, USA, April 27, 2019
- D. Lofgren, R. Nydam, **M. Gaumer** et al., "New Records of Multituberculate Mammals from the Goler Formation (Tiffanian, Paleocene) of California", *Paludicola Vol. 11 No. 4 149-163*, 2018, <https://paludicolavertpaleo.files.wordpress.com/2019/11/11-4-lofgren-et-al-2018.pdf>
- D. Tenorio, V. Rivera, J. Medina, A. Leondar, **M. Gaumer**, Z. Dodds, "Visual Autonomy Via 2D Matching in Rendered 3D Models", *Visual Computing: 11th International Symposium, ISVC 2015, Las Vegas, NV, USA, Dec. 14-16, 2015, Proceedings Part 1*, 2015, https://www.cs.hmc.edu/~dodds/isvc_final_2015.pdf
- Presented at ISVC, Las Vegas, NV, USA, Dec. 14-16, 2015

SKILLS AND AWARDS

Programming: Python, MATLAB, C++, C#, Java, Latex	
Python Packages: PyTorch, NumPy, scikit-learn, Matplotlib, Pillow, SciPy, pandas, OpenCV	
Languages: Mandarin Chinese (Conversational)	
State Farm Insurance Merit Scholarship	2015-2019
Harvey Mudd College Dean's List	2015-2019
International Competition For Modeling (ICM) - MERITORIOUS DESIGNATION	2018
Grace Hopper GoDaddy Scholarship	2015