

# Braden M.H. KATZMAN

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## EDUCATION

<i>Class of</i> 2018	<b>The Jewish Theological Seminary of America</b> <b>Master of Arts</b> , Jewish Philosophy <b>Expected Graduation</b> May 2018
<i>Class of</i> 2017	<b>Columbia University</b> <b>Bachelor of Arts</b> , Computer Science (Intelligent Systems) <b>GPA</b> 3.34 <b>Academic Honors</b> Dean's List (Fall 2015)
<i>Class of</i> 2017	<b>The Jewish Theological Seminary of America</b> <b>Bachelor of Arts</b> , Jewish Philosophy <b>GPA</b> 3.61 <b>Academic Honors</b> Cum Laude <b>Academic Awards</b> Fanny Schneyer Education Award
<i>Columbia/JTS</i> DUAL B.A.	<b>Cumulative GPA</b> 3.48
<i>Summer</i> 2015	<b>Stanford University</b> <b>Certificate of Completion</b> , Summer Intensive in Computer Science

## WORK EXPERIENCE

SEPTEMBER 2015	<b>Sloan Kettering Institute</b> , <a href="#">The Zhirong Bao Lab</a> at Rockefeller Research Laboratories, <i>Computer Vision and Graphics Engineer</i>
PRESENT	•Image segmentation systems in 3D, Volumetric 3D Reconstruction, 4D visual information systems for the study of developmental neuroscience in <i>C. elegans</i> •Experience with Java, MATLAB, Python, C
AUGUST 2017	<b>Datafay</b> , <i>Machine Learning Engineer</i>
PRESENT	•SQL query generator and optimizer from natural language for Power BI data visualizations •Experience with SQL and Tensorflow
DECEMBER 2016	<b>Seecure Systems</b> , <i>Image Processing Engineer</i>
MAY 2017	•Human detection, recognition and tracking systems for CCTV data via deep learning •Experience with OpenCV and Tensorflow
AUGUST 2015	<b>Columbia University Software Systems Lab</b> , <i>Undergraduate Researcher</i>
MAY 2016	•Deep Linking and Universal Sharing research on Android using the Unity Game Engine

## PROJECTS AND PUBLICATIONS

DECEMBER 2017	<b>AceTree: a major update and case study in the long term maintenance of open-source scientific software (Under Review - <a href="#">Manuscript</a>)</b> <i>Braden Katzman, Doris Tang, Anthony Santella, Zhirong Bao</i> Under Review by BMC Bioinformatics
JUNE 2017	<b>WormGUIDES: Assembling and Accessing an Integrated Record of Neural Development.</b> <i>Anthony Santella, Doris Tang, Braden Katzman Zhirong Bao, et al</i> Affiliations: Sloan Kettering Institute, Yale University School of Medicine, NIH Section on High Resolution Optical Imaging, UConn Health Center Presented at 21st International <i>C. elegans</i> Conference

## ASSOCIATIONS

2015 - 2017	<b>WormGUIDES</b> , <i>Computer Scientist</i> <a href="#">WormGUIDES</a> is a consortium of biologists, computer scientists and microscopists seeking to create a novel systems-level resource that will facilitate examination of cellular decisions in the developing nervous system of the nematode <i>C. elegans</i>
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**SKILLS** Python, Java, MATLAB, C, C#, C++, Machine Learning, Image Processing, 3D Graphics, ROS, VR/AR, Genome Sequencing

**INTERESTS** Photography, philosophy, open-source software, home-improvement projects, neuroscience, physical cosmology, building computers, reading