

SOFTWARE PROJECTS

- Various **Machine Learning algorithms in Python** (e.g Decision Trees, Linear Classifiers, Recommender Systems, SIFT Clustering). Collaboration with one peer. Source: github.com/JasonFil/Python-ML.
- **Genomic Assembly Model Testing in Python** (investigation of read coverage and mate-pair size agreement of FASTA-encoded DNA sequences). Collaboration with three peers. Source: github.com/JasonFil/assembly-testing
- Several **Computer Vision algorithms in MATLAB** (e.g, Normalized Cut, Edge Detection, Stereo Matching, Bag-of-words Classifiers). Source: github.com/JasonFil/Vision
- **Linear and Non-Linear Dimensionality Reduction algorithms** (Linear Discriminant Analysis, Locality - Sensitive Hashing, ISOMAP). Source: github.com/JasonFil/DimReduce
- **Java Library of Data Structures** (e.g, Heaps, Lists, Queues, Balanced Binary Trees, B-Trees, Hash Tables, “Patricia” Tries, KD-Trees, QuadTrees). Source made private to discourage academic plagiarism (access code available on request): bitbucket.org/JasonFil/.

PUBLICATIONS / POSTERS / TALKS

- Evan Golub, William Gasarch, and Jason Filippou: To Click, Plick, Point, Card or Survey? 23rd Annual Innovations in Teaching and Learning Conference, University of Maryland, 05-2017. ([PDF poster](#))
- Jason Filippou and Varun Manjunatha: Assigning Affinity-Preserving Binary Hash-Codes to Images. CS UMD Scholarly Paper Archive, 12-2014 ([PDF](#))
- Anastasios Skarlatidis, Alex Artikis, Jason Filippou, and George Paliouras: A Probabilistic Logic Programming Event Calculus. Special Issue on Probability, Logic & Learning of Theory and Practice of Logic Programming, 03-2013 ([PDF](#))
- Alex Artikis, Jason Filippou, and Nikos Katzouris: Tutorial on Complex Event Recognition. 7th Hellenic Conference on Artificial Intelligence, 06-2012.