**Yoni Nachmany**

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EDUCATION

**University of Pennsylvania**, Philadelphia, PA

*M.S.E. in Data Science (GPA: 4.00/4.00) May 2019*

* [**Classes**](https://dats.seas.upenn.edu/):Vision & Learning, Data Mining, Autonomous Racing, Deep Learning for Data Scientists.
* [**Thesis**](http://bit.ly/DATS-599-F18): mapping roads in Ghana with DeepLab trained on 30cm satellite data from Khartoum.
* [**AP-Latam**](https://github.com/yoninachmany/crowdai-mapping-challenge-mask-rcnn): mapping roofs in slums with Mask R-CNN trained on 50m satellite data from Rio.
* [**Earth on AWS Fellowship**](https://aws.amazon.com/blogs/publicsector/announcing-the-inaugural-earth-on-aws-fellowships-and-internships-program/): mapping land use in Slovenia by fusing 10m optical and radar data.

*B.S.E. in Networked and Social Systems (GPA: 3.30/4.00) May 2018*

* [**Teaching Assistant**](http://crowdsourcing-class.org/): Crowdsourcing & Human Computation, Foundations of Data Science.
* [**Gun Violence Database**](https://mappinggunviolence.herokuapp.com/): automated crowdsourced information extraction of articles with NLP.
* [**Human Computation**](https://www.humancomputation.com/2017/papers.html#wip) **2017**: presented poster on crowdsourced summaries of privacy policies.

EXPERIENCE

**Radiant Earth Foundation**, *Geospatial ML Intern*, Oakland, CA *Jun 2018 - Aug 2018*

* [**Nonprofit**](https://www.radiant.earth/about/) providing open access and analytics on Earth imagery for global development.
* [**Training Dataset for Global Land Cover Classification**](https://arxiv.org/abs/1811.07998): generated per-pixel labeling in test areas with Random Forests trained on 10m satellite data at 80% accuracy, presented at NeurIPS 2018.

**Azavea**, *Open Source Software Fellow*, Philadelphia, PA *Jun 2017 - Dec 2017*

* [**B Corp**](https://www.azavea.com/)**oration** creating civic geospatial web software while advancing state-of-the-art research.
* [**GeoTensorFlow**](https://github.com/yoninachmany/geotensorflow): enabled Scala geospatial data processing engine to run trained Python models.

**Hack4Impact**, *Software Developer*,Philadelphia, PA *Sep 2014 - Dec 2017*

* [**Student organization**](https://hack4impact.org/) building software applications to help nonprofits maximize their impact.
* [**Transcribe4All**](https://github.com/hack4impact/transcribe4all): enabled concurrent transcription of audio links, identifying search terms, in Go.

**Meetup**, *Core Engineering Intern*, New York, NY *May 2016 - Aug 2016*

* [**Social network**](https://www.meetup.com/media) of 3M monthly attendees, 40M members, and 300K Meetup groups globally.
* [**App relaunch**](http://blog.meetup.com/meet-new-meetup/): under Senior API Engineer, sped queries and fixed API bugs in Java and Scala.

**Clarifai**, *Machine Learning Research Intern*, New York, NY *May 2015 - Aug 2015*

* [**AI startup**](https://clarifai.com/about) in visual recognition, won top five places in image classification at ImageNet 2013.
* [**Shot boundary detection**](http://www-nlpir.nist.gov/projects/trecvid/shots.html): led by CTO, built Django demo of dataset to facilitate video tagging.

SKILLS

**Data**: NumPy, Pandas. SciKit-Learn, Keras, TensorFlow, PyTorch. Spark, Elastic MapReduce. AWS, GCP.

**Programming**: Python, Flask, SQLAlchemy, Git, Unix. Java, Scala. JavaScript, Go. Matlab, C++. OCaml.

**Leadership**: Hack4Impact executive board, PennQuest orientation trip, Penn Alternative Breaks trip.