

EDUCATION

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| May 2018 | New York University , Courant Institute
<i>M.Sc. in Computer Science, GPA:3.95/4</i> | New York, NY |
| June 2016 | Koc University , College of Engineering
<i>B.Sc. in Electrical and Electronics Engineering, GPA: 3.99/4.30, 2nd in class</i>
<i>B.Sc. in Computer Engineering, GPA: 4.02/4.30, 2nd in class</i> | Istanbul, Turkey |

WORK & RESEARCH EXPERIENCE

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| Present | Google , Google Brain
<i>2018 AI Residency Program</i>
<ul style="list-style-type: none"> Selected from over 5k applications (< 1%). Learned Tensorflow framework and checked-in 10k+ peer-reviewed code in 10 months. Submitted a paper to ICLR 2019 [4] on a new neural network pruning method that reduces the damage at the time of pruning efficiently. Currently working on training sparse neural networks. Initial results are published in ICML 2019 Deep Phenomena Workshop [3]. | Montreal, Canada |
| Spring 2017 | NYU , Courant Institute
<i>Research Assistant: 2 different projects</i>
<ul style="list-style-type: none"> Worked with L. Sagun on energy landscapes of deep neural networks and co-authored a paper accepted to ICLR 2018[5] Worked with A. Rives(PhD student) on predicting protein structure from sequence information. | New York, United States |
| Summer 2017 | Amazon , AWS EC2
<i>Software Development Engineer(SDE) Intern: Auditing Big-Data</i>
<ul style="list-style-type: none"> Wrote 3000+ lines of pyspark/python-code using 14 different API/library for auditing TBs of data. Resulting spark program was able to reach 50mb/s per node processing speed and scaled linearly. | Seattle, United States |
| Summer 2015 | Swiss Federal Institute of Technology (EPFL) , IIG
<i>Research Intern: Modeling Human Stepping</i>
<ul style="list-style-type: none"> Processed 3D marker data sequence to detect steps and their locations on 2D plane, which led to a short paper published in CASA '16 [1] Wrote a full-paper remotely along with an online .js implementation summing up to 4000+ lines of MATLAB/javascript which is accepted to MIG '16 as poster. | Lausanne, Switzerland |

OTHER PROJECTS¹

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| Spring 2018 | Detecting Dead Weights and Units[2] , Python/Bash
<i>M.Sc. Thesis advised by Prof. Bottou</i>
<ul style="list-style-type: none"> Implemented pytorchpruner: pruning library for pytorch with 1k+ lines. Wrote exp-bootstrap for managing large scale experiments. |
| Fall 2016 | Neural Network Pruning , Python/Bash
<i>Computer-Vision Class Project</i>
<ul style="list-style-type: none"> Wrote 1500+ lines of code in 6 weeks along with a report and literature review of 15+ papers. |

ACHIEVEMENTS

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| 2016 | Fulbright Scholarship & NYU GSAS Tuition Scholarship , for M.Sc. at NYU. |
| 2011 | Ranked 1st in Turkey , in College Entrance Exam (LYS) out of more than a million people. |
| 2013-2016 | American Football College Team Captain , led the team in offense. |
| 2011 | Semahat Arsel Scholarship , most prestigious full scholarship for the B.Sc. at Koc University. |

SKILLS & INTEREST

> **5000 lines** C ○ **Python** ○ Java ○ Bash

¹more at evcu.github.io

> **2000 lines** CUDA ◦ (py)Spark ◦ (py,Lua)Torch ◦ Tensorflow ◦ Javascript/d3.js
 Familiar CSS/HTML ◦ OpenMPI/MP ◦ C++ ◦ Lisp/Scheme

PUBLICATIONS

- [1] Ronan Boulic et al. “One Step from the Locomotion to the Stepping Pattern”. In: *Proceedings of the 29th International Conference on Computer Animation and Social Agents*. CASA '16. Geneva, Switzerland: ACM, 2016, pp. 165–168. ISBN: 978-1-4503-4745-7. DOI: 10.1145/2915926.2915949. URL: <http://doi.acm.org/10.1145/2915926.2915949>.
- [2] Utku Evci. “Detecting Dead Weights and Units in Neural Networks”. In: (2018). DOI: 10.13140/RG.2.2.32517.24804. arXiv: 1806.06068. URL: <http://arxiv.org/abs/1806.06068>.
- [3] Utku Evci et al. “The Difficulty of Training Sparse Neural Networks”. In: (2018). URL: <https://openreview.net/forum?id=BJxRVnC5Fm>.
- [4] “Mean Replacement Pruning”. In: (2018). URL: <https://openreview.net/forum?id=BJxRVnC5Fm>.
- [5] Levent Sagun et al. “Empirical Analysis of the Hessian of Over-Parametrized Neural Networks”. In: *CoRR* abs/1706.04454 (2017). arXiv: 1706.04454. URL: <http://arxiv.org/abs/1706.04454>.