Cat P. Le

Machine Learning Engineer

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LinkedIn linkedin.com/in/catphuocle

EDUCATION

2018 - Now **Duke University**
Ph.D. Electrical/Computer Engineering
Advisor: Vahid Tarokh
GPA: 3.94

2016 - 2017 **California Institute of Technology**
M.S. Electrical Engineering
Advisor: Babak Hassibi
GPA: 4.00

2014 - 2016 **Rutgers University–New Brunswick**
B.S. Electrical/Computer Engineering
GPA: 4.00

WORK EXPERIENCE

Aug 2018 - Now **Graduate Research Assistant**
Duke University
Research on machine learning under the supervision of Prof. Vahid Tarokh

Jul 2017 - Jul 2018 **System Engineer**
Motorola Solutions
Design hardware and firmware for license plate recognition camera.

Aug 2015 - May 2016 **Undergraduate Research Assistant**
Rutgers University
Research on Cloud-Radio Access Network under REU Funding of NSF.

PUBLICATIONS AND HONOR

C. P. Le, J. Dong, M. Soltani, and V. Tarokh, "**Task affinity with maximum bipartite matching in few-shot learning**," in International Conference on Learning Representations, 2022. [Online].

Le, C.P., Soltani, M., Dong, J., & Tarokh, V. (2021). **Fisher Task Distance and Its Applications in Neural Architecture Search and Transfer Learning**. IEEE Preprint IEEE Access 2022.

Le, C. P., Soltani, M., Ravier, R., & Tarokh, V. (2021, June). **Task-aware neural architecture search**. In ICASSP 2021-2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) (pp. 4090-4094). IEEE.

Le, C. P., Soltani, M., Ravier, R., & Tarokh, V. (2021). **Improved Automated Machine Learning from Transfer Learning**. arXiv preprint arXiv:2103.00241.

Le, C. P., Zhou, Y., Ding, J., & Tarokh, V. (2020, May). **Supervised Encoding for Discrete Representation Learning**. In ICASSP 2020-2020 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) (pp. 3447-3451). IEEE.

Nikola Tesla Scholar
Columbia University

Summa Cum Laude
Rutgers University

Matthew Leydt Award
Rutgers University

John B. Smith Award
Rutgers University

Outstanding Engineering Scholar
Rutgers University

E. M. Toomey Scholarship
Rutgers University

Tau Beta Pi & Eta Kappa Nu
Rutgers University

INTERESTS

Deep Learning
Computer Vision
Meta Learning
Transfer Learning
Few-shot Learning
Neural Architecture Search
Multi-task Learning
Signal & Image Processing

SKILLS

Python	★★★★★	**Pytorch**	★★★★★
MATLAB	★★★★★	**Numpy**	★★★★★
C/C++	★★★☆☆	**Pandas**	★★★★★
LabVIEW	★★★★☆	**OpenCV**	★★★★☆