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Pauline LUC

EDUCATION

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|-----------|---|
| 2014-2015 | MVA, ENS Cachan - Research Master in MATHEMATICS, VISION, LEARNING
Advanced mathematical courses on methods employed in contemporary research for the processing of data, images and signals. |
| 2011-2015 | Ecole Centrale Paris - Master of Engineering in APPLIED MATHEMATICS
One of France's leading "Grandes Ecoles". Data Science Curriculum. |
| 2009-2011 | Lycee Stanislas, Paris - "Classes Préparatoires" in MATHEMATICS, PHYSICS
Advanced courses in preparation for the competitive examination to French "Grandes Ecoles". |

RESEARCH EXPERIENCE

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| SINCE
NOV 2015 | CIFRE PhD Student at FACEBOOK A.I. RESEARCH, Paris & INRIA, Grenoble,
<i>Recognition, Video Prediction, Generative Modeling</i>
Advised by Camille Couprie and Jakob Verbeek. Published work on video prediction in high level feature spaces and use of adversarial training for semantic segmentation. |
| APR-OCT
2015 | Research Intern at NETATMO, Paris, <i>Object Recognition</i>
Designed and developed an algorithm for object detection for an outdoor automatic surveillance camera, granted a patent. |

PROJECT MANAGEMENT EXPERIENCE

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| JAN-JUL
2014 | Process Analyst at ELECTROLUX, Singapore
Facilitated the change management for the Product Development process. Designed a customization of this process for a class of projects. |
| JUL-DEC
2013 | Assistant Project Manager at CANAL+, Paris
Assisted a project manager in the analysis of internal clients' needs, technical and functional design of the solution, risk assessment, change management. |

SKILLS

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| LANGUAGES | French: Mother tongue; English: Fluent, 5-year stay in Sydney;
German: Intermediate, 6-month exchange in Cologne. |
| PROGRAMMING | Python, PyTorch, Lua, Matlab, R, Git, Bash, Latex. |

AWARDS

- 2018 Free registration to NIPS 2018 as one of the *200 highest-scoring reviewers*.

PUBLICATIONS & PATENTS

Predicting Future Instance Segmentation by Forecasting Convolutional Features

Pauline Luc, Camille Couprie, Yann LeCun and Jakob Verbeek
In ECCV 2018, Munich, Germany.

Joint Future Semantic and Instance Segmentation Prediction - Oral Presentation

Camille Couprie, **Pauline Luc** and Jakob Verbeek
In ECCV WORKSHOP ON ANTICIPATING HUMAN BEHAVIOR 2018, Munich, Germany.

Predicting Deeper into the Future of Semantic Segmentation

Pauline Luc, Natalia Neverova, Camille Couprie, Jakob Verbeek and Yann LeCun
In ICCV 2017, Venice, Italy.

Semantic Segmentation using Adversarial Networks - Spotlight Presentation

Pauline Luc, Camille Couprie, Soumith Chintala and Jakob Verbeek
In NIPS WORKSHOP ON ADVERSARIAL TRAINING 2016, Barcelona, Spain.

Automatic Lighting and Security Device - Netatmo's Presence outdoor surveillance camera

David Elvira, Mehdi Felhi, Frederic Potter, **Pauline Luc** and Kelvin Moutet
EU, EUROPEAN PATENT OFFICE, patent 3400405, filed January 2017 and issued November 2018.
Extended to US, CN, KR, filed July 2018. Patents pending.

PROFESSIONAL ACTIVITIES

Seminars & Teaching

- 2018 Invited talk in *Deep Learning for Image Analysis* class at ECOLE DES MINES
- 2017 Invited talk at the internal *GAN Symposium* at FACEBOOK
- 2017 *Computer Vision 101* class of the A.I. Facebook Masterclass at ECOLE 42

Reviewing

- 2018 NIPS 2018, ECCV 2018, WICV 2018
Computer Vision and Image Understanding
- 2017 Transactions on Medical Imaging

Interviews

- 2018 [Interview](#) with COMPUTER VISION NEWS
[Live Interview](#) with LES ECHOS START
- 2017 [Facebook Live interview](#) with LE FIGARO @ 14'30"
- 2016 [Intelligence Artificielle Made in France](#) with FRANCE CULTURE @ 8'30"

Panels

- 2017 Moderated a Panel on AI organised by the [IHEIE](#) between 6 AI start-up CEOs.
Audience composed of 30 members of the French Parliament and industry.

EXTRA-CURRICULAR ACTIVITIES

- 2012 **Vice-President** of NX Television – student television of Ecole Centrale Paris
President of the WOMEN'S SOCCER CLUB at Ecole Centrale Paris

Other interests: Running, Hiking, Swimming, Photography