Simon de Moreau

PHD CANDIDATE · MINES PARIS - PSL · VALEO

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Professional Experience

R&I engineer *Valeo*
DEC. 2022–PRESENT *Bobigny*
AI Engineer in the AI team of Valeo Lighting Systems.

Research intern *SuburVAN*
APR. 2022–SEPT. 2022 *Le Chesnay-Rocquencourt*
End of studies' project in computer vision applied to autonomous driving.

Research intern *UQTR*
MAY. 2021–JULY. 2021 *Trois-Rivières, Canada*
Research internship in agricultural robotics. Results led to scientific publication. Internship with Mitacs Globalink, a competitive excellence scholarship.

Embedded systems developer *Aube Electronique*
MAY. 2019–JULY. 2019 *Troyes*
Internship in design and implementation of embedded software solutions.

Developer *Couleurinfo*
SEPT. 2016–JULY. 2018 *Merfy*
Part-time study - Design and implementation of desktop and mobile application, websites.

Education

PhD in Computer Science and Robotics *Mines Paris - PSL University*
2022–PRESENT *Paris, France*
End-to-end Holistic Lighting. Leveraging HD headlights to improve performances and robustness of perception at nighttime. Under the direction of Fabien Moutarde (Mines Paris, CAOR), the supervision of Bogdan Stanciulescu (Mines Paris, CAOR), Yasser Almehio (Valeo) and Hafid El-Idrissi (Valeo)

MSc Engineering *ENSEA*
2019–2022 *Cergy, France*
Specialization in Signal Processing and Computer Science. Graduated first of the class and with the highest honors.

MSc Research, Artificial Intelligence and Robotics *CY Cergy Paris University*
2021–2022 *Cergy, France*
MSc Research taken as a double-diploma. Specialization in AI and Robotics.

DUT Electrical and Computer Engineering *IUT of Troyes*
2018–2019 *Troyes, France*
Diploma in Technological Studies (DUT) is a two-year post-secondary national university diploma.

Publications

Submitted Paper S. De Moreau, Y. Almehio, A. Bursuc, H. El Idrissi, B. Stanciulescu, F. Moutarde. *LED: Light Enhanced Depth Estimation at Night*, July 2024

Submitted Paper S. De Moreau, M. Corsia, H. Bouchiba, Y. Almehio, A. Bursuc, H. El Idrissi, F. Moutarde. *DOC-Depth: A novel approach for dense depth ground truth generation*, Sept 2024

Published Paper G. Monsalve, O. Thiery, **S. De Moreau**, A. Cardenas *Development of agricultural robot platform with virtual laboratory capabilities*, IECON 2021