Jean Ponce: Curriculum vitae

Web site: `http://www.di.ens.fr/~ponce/enindex.html`

Education

1988: Doctorat d'Etat, Computer Science, University of Paris Orsay.

1983: Doctorat de Troisième Cycle, Computer Science, University of Paris Orsay.

1978–1982: Ecole Normale Supérieure de l'Enseignement Technique, Mathematics.

Positions

2023–: Co-founder and CEO of **Enhance Lab**, a startup that commercializes software for super-resolution and high dynamic range imaging from raw image bursts.

2023–: Professor, Department of Computer Science, **Ecole Normale Supérieure** and Global Distinguished Professor at the Courant Institute of Mathematical Sciences and the Center for Data Science (CDS) at **New York University**.

2017–2022: Research Director, Inria (on leave from ENS) and Visiting Faculty, CDS/NYU.

2006–2017: Professor, Department of Computer Science, ENS.

1990–2006: Tenure-track Faculty Member, Department of Computer Science and Beckman Institute, University of Illinois at Urbana-Champaign (UIUC). (Full Professor, 1998–2006.)

1985–1989: Research Associate, Stanford University Robotics Laboratory. (Sr. Res. Associate, 1989.)

1984–1985: Visiting Scientist, MIT Artificial Intelligence Laboratory.

1982–1985: Research Scientist, Inria.

Institutional responsibilities

2019–: Scientific Director, Prairie 3IA Institute (`https://prairie-institute.fr/`).

2011–2017: Head of the ENS Computer Science Department (`https://www.di.ens.fr/`).

2011–2016: Member of the founding Executive Board of PSL University (`https://psl.eu/`, 2011), of its Research Council (2012-2014) and its Research Council Bureau (2015-2016) .

2007–2021: Founder and Head of the Willow Inria/ENS/CNRS team (`http://www.di.ens.fr/willow/`).

Fellowships and awards (partial list)

2023–: Member, Academia Europaea

2020: IEEE CVPR Longuet-Higgins Prize to Y. Furukawa and J. Ponce.

2019: ICML Test-of-Time Award to J. Mairal, F. Bach, J. Ponce and G. Sapiro.

2019: ELLIS Fellow.

2016: IEEE CPVR Longuet-Higgins Prize to S. Lazebnik, C. Schmid and J. Ponce.

2012–2017: Sr. Member, Institut Universitaire de France.

2009: Best Student Paper - Honorable Mention to O. Duchenne, F. Bach and J. Ponce, CVPR.

2003: IEEE Fellow.

1997: Nominated for Best Paper Award, with A. Sudsang and N. Srinivasa, IROS.

Publications

Publications in all the major international conferences and journals of computer vision, computer graphics, machine learning, and robotics, including 1 book (2 editions, translated in Chinese, Japanese, and Russian), 1 monograph, 3 edited collections, 62 articles in international journals, 155 papers in peer-reviewed international conferences. Citations: 64,458 with 13 articles having at least 1000 citations and five papers listed among the "most influential papers" from CVPR, ICCV and ICML according to PaperDigest (`https://www.paperdigest.org/2023/04/`), three of which have received the CVPR Longuet-Higgins and ICML test-of-time awards mentioned above. H-index: 87 (source: Google Scholar).

Transfer activities and patents

2024: "Dispositif et procédé de formation d'une image à faible niveau de bruit à partir d'une rafale d'images", B. Lecouat, J. Mairal and J. Ponce, French patent FR2207574.

2012: "Match, expand, and filter technique for multi-view stereopsis", Y. Furukawa and J. Ponce, US patent #8,331,615.

2003: "Automated reconfigurable object manipulation device with an array of pins", S. Akella, S. Blind, C. Mc Cullough, and J. Ponce, US patent # 6,633,797.

PhD student supervision: 24 former PhD students and 4 current ones. Former PhD students include S. Sullivan, lead of Microsoft's Mixed Reality Capture Studios, former STO of Lucasfilm, recipient of 3 Academy Awards; S. Lazebnik, Professor, UIUC, IEEE Fellow, recipient of the 2016 Longuet-Higgins prize; Y. Furukawa, Associate Professor, Simon Fraser University, recipient of the 2020 Longuet-Higgins prize; J. Mairal, Research Scientist, Inria, recipient of a 2017 ERC starting grant and a 2023 ERC consolidator grant, the PAMI young researcher award, and the 2019 ICML test-of-time award; Y.-L. Boureau, Director of Facebook AI Research (FAIR) Labs for Montréal and New York; Armand Joulin, Director of FAIR Labs for Europe.

Postdoctoral fellow supervision: Former post-docs include N. Cherniavsky Durand, Assistant Professor, Baylor College of Medecine; M. Cho, Associate Professor, POSTECH; T. Cour, Sr. Machine Learning Engineer, Lighthouse AI; O. Flasseur, Research Scientist, CNRS; B. Ham, Assistant Professor, Yonsei University; H. Kong, Associate Professor, University of Macau; B. Russell, Research Scientist, Adobe; J. Sun, Professor, XJTU; J. van Gemert, Assistant Professor, TU Delft.

Teaching activities: 10 different classes taught since 1990 at ENS, ENS Paris-Saclay, NYU, UIUC, University of Paris, including 1 for sophomores (Intro. to scientific computing), 1 for second-year medical students (Intro. to computer vision), 6 for seniors (Intro. to artificial intelligence, Intro. to computer graphics, Intro. to computer vision, Computer aided geometrid design, Nonlinear computational geometry), and 3 for graduate students (Category-level object recognition, Geometry and computer vision, Robot motion planning).

Organisation of scientific meetings (partial list)
2023: General Chair, International Conference on Computer Vision, Paris.
2018-2021: Co-Organizer, Prairie Summer School on Artificial Intelligence.
2010-2013: Co-Organizer, Summer School on Visual Recognition and Machine Learning.
2008: General Chair, European Conference on Computer Vision
2003-2006: Chair, Int. Workshop on Object Recognition.
2000: General Chair, IEEE Conference on Computer Vision and Pattern Recognition.
1997: Program Chair, IEEE Conference on Computer Vision and Pattern Recognition.
1994, 1996: Chair, Int. Workshop on Object Representation in Computer Vision.

Editorial boards
2019–2022: Sr. Editor-in-Chief, Int. Journal of Computer Vision (Editor-in-Chief, 2003–2008).
2010–2011: SIAM Journal of Imaging Science.
2005–: Foundations and Trends of Computer Graphics and Vision.
1998-2001: IEEE Transactions on Robotics and Automation.
1994-2000: Computer Vision and Image Understanding.

Advisory and review boards
• Scientific advisory boards: ONERA AI Lab (2023–), IBM Watson AI Xprize (2017–); France is AI (2017); France Télécom (2001–2004); Electricité de France (1998–2002).
• Review boards: ERC Advanced Grants PE6 Review Panel (2022-2025); Head AERES Review Board for CMLA Laboratory, Ecole normale supérieure, Cachan (2014); EST-FCT Review Panel for Portuguese Engineering Science R&D Units (2014); AERES Review Board for Mathematics and Systems Laboratory, Ecole des Mines (2013).

Grants (2006–)
2019–2023: PI (with Isabelle Ryl) of the Prairie 3IA project (> 10M€ per year).
2017–: PI, Louis Vuitton/ENS Chair in Artificial Intelligence (200K€ per year).
2011–2016: ERC Advanced Grant VideoWorld (2.5M€).
2010: Main contributor for Computer Science to PSL IDEX proposal (2011–, > 25M€ per year).
2006–2017: About 750K€ from ANR, DGA and industry at ENS.