



SHEN Xi

Education

- 2017–present **Ph.D.**, *École des Ponts ParisTech*, Paris.
Computer vision, Self-supervised / Weakly-supervised learning, advised by Prof. Mathieu Aubry
- 2013–2017 **Diplome d'Ingenieur**, *École des Ponts ParisTech*, Paris.
Department of Computer Science and Applied Mathematics
- 2016–2017 **Master**, *École Normale Supérieure Paris-Saclay*, Paris, *First-class honors (Mention très bien)*.
Mathematics, Computer Vision and Machine Learning (Mathématiques, Vision, Apprentissage)
- 2009–2013 **Dual Bachelor**, *Université Claude Bernard Lyon & Wuhan University*, Lyon & Wuhan, *Top 1%*.
Mechanics & Physics

Experience

Mitex (formerly A2iA)

- 2015–2016 **Research Engineer, Intern**, Paris.
Recurrent neural network for chinese handwritten & printed text recognition

Dassault Systemes

- 2017–2017 **Research Engineer, Intern**, Vélizy.
Convolutional neural network for image denoising

Languages

- Chinese Native
French Fluent
English Proficient

Computer skills

- Python, Pytorch, C++, Matlab, Latex, Html
See my resleased code on GitHub: <http://github.com/XiSHEN0220>

Projects

- ArtMiner <http://imagine.enpc.fr/shenx/ArtMiner/>
Watermark recognition <http://imagine.enpc.fr/shenx/Watermark/>

Publications

Conference papers

Xi Shen, Alexei A Efros, and Mathieu Aubry. Discovering visual patterns in art collections with spatially-consistent feature learning. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*, 2019.

Xi Shen and Ronaldo Messina. A method of synthesizing handwritten chinese images for data

augmentation. In *2016 15th International Conference on Frontiers in Handwriting Recognition*, 2016.

Yuan Yuan, Yueming Lyu, Xi Shen, Ivor W Tsang, and Dit-Yan Yeung. Marginalized average attentional network for weakly-supervised learning. In *International Conference on Learning Representations*, 2019.

Others

Shiry Ginosar, Xi Shen, Karan Dwivedi, Elizabeth Honig, and Mathieu Aubry. The burgeoning computer-art symbiosis. *XRDS: Crossroads, The ACM Magazine for Students*, 2018.

Xi Shen, Ilaria Pastrolin, Oumayma Bounou, Spyros Gidaris, Marc Smith, Olivier Poncet, and Mathieu Aubry. Large-scale historical watermark recognition: dataset and a new consistency-based approach. *arXiv preprint*, 2019.