

Currently looking for a postdoctoral position in Computer Vision, started around September 2022

EDUCATION

Telecom Paris

Ph.D. Student in Computer Vision
Topic: Latent representations for facial images and video editing
Advisor: Prof. Yann Gousseau and Prof. Alasdair Newson

Paris, France
Nov 2018 - Current

Mines ParisTech

M.S. Applied Mathematics

Paris, France
Sep 2015 - Jul 2018

Fudan University

B.S. Mechanics (major) & Economics (minor)
– National Scholarship (top 1%, 2013)

Shanghai, China
Sep 2011 - Jul 2015

PUBLICATIONS

- [1] **X. Yao**, A. Newson, Y. Gousseau, and P. Hellier, “A latent transformer for disentangled face editing in images and videos”, in *Proceedings of the IEEE/CVF International Conference on Computer Vision*, 2021, pp. 13 789–13 798.
- [2] **X. Yao**, A. Newson, Y. Gousseau, and P. Hellier, “Learning non-linear disentangled editing for stylegan”, in *2021 IEEE International Conference on Image Processing (ICIP)*, IEEE, 2021, pp. 2418–2422.
- [3] **X. Yao**, G. Puy, A. Newson, Y. Gousseau, and P. Hellier, “High resolution face age editing”, in *2020 25th International Conference on Pattern Recognition (ICPR)*, IEEE, 2021, pp. 8624–8631.
- [4] **X. Yao**, G. Puy, and P. Patrick, “Photo style transfer with consistency losses”, in *2019 IEEE International Conference on Image Processing (ICIP)*, 2019, pp. 2314–2318.

EXPERIENCE

InterDigital (Technicolor)

PhD student researcher (Supervisor: Dr. Pierre Hellier and Dr. Gilles Puy)

- Proposed a deep learning based method for face aging/de-aging task.
- Proposed an algorithm for disentangled face editing in images and videos via the latent space of StyleGAN.
- Proposed a feature-style encoder for style-based GAN inversion.

Rennes, France
Nov 2018 - Current

Horizon Robotics

Research Intern

- Gesture recognition/Lip reading
- Explored multimodal method for lip reading/voice separation.

Beijing, China
Jul 2018 - Oct 2018

Technicolor

Research Intern (Supervisor: Dr. Patrick Pérez and Dr. Gilles Puy)

- Proposed a novel approach for photo-realistic style transfer. Conference publication.
- Developed a new loss function that takes only two photos to train a network which is able to transfer the learnt style on natural photos not viewed at training time.

Rennes, France
Jan 2018 - Jun 2018

Criteo

Business Intelligence Analyst Intern

Munich, Germany

Dec 2016 - Jun 2017

- Developed a feasible model to calculate the maximum potential benefit for each corporate client.
- Created visual analytics charts based on industry seasonality and annual returns data, to help provide budget forecast for 200+ corporate clients in Turkey, Middle East and North America.

SKILLS

- Deep Learning, Image Processing, Python, PyTorch, Tensorflow, Keras, MXNet, R, Matlab, C++, SQL, Excel VBA, MS Office, Tableau Desktop, Adobe Photoshop, Auto CAD

LANGUAGES

- **English:** Full professional proficiency
- **French:** Full professional proficiency
- **Mandarin:** Native speaker

EXTRACURRICULAR ACTIVITIES

- China Horizon Forum - VP Enterprise 2016
 - Contacted enterprises for China Horizon Forum, a job fair for Chinese students in France
- Volleyball Association of Fudan University - President 2013
 - Organized volleyball competitions, including an East China Volleyball competition with 18 universities participating
 - Led the team to win the price of Star Association of Shanghai, the highest honor for university associations in Shanghai