# Xu Yao

+33 6 62 05 91 41
xu.yao@telecom-paris.fr

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

## EDUCATION

**Telecom Paris**                                                                Paris, France
Ph.D. in Signal and Image processing                                         Nov 2018 - Current
Advisor: Prof. Yann Gousseau and Prof. Alasdair Newson

**Mines ParisTech**                                                             Paris, France
M.S. in Engineering and Applied Mathematics                                 Sep 2015 - Jul 2018

**Fudan University**                                                          Shanghai, China
B.S. in Mechanics (major) & Economics (minor)                               Sep 2011 - Jul 2015
  – National Scholarship (top 1%, 2013)

## PUBLICATIONS

[1]  **X. Yao**, A. Newson, Y. Gousseau, and P. Hellier, "A latent transformer for disentangled face editing in images and videos", *2021 International Conference on Computer Vision (ICCV)*, 2021.

[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.

[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)**                                                 Rennes, France
PhD student researcher (Supervisor: Dr. Pierre Hellier and Dr. Gilles Puy)   Nov 2018 - Current
  – Topic: Deep Video Editing
  – Proposed a deep learning based method for face aging/de-aging task.
  – Proposed a novel method to achieve disentangled facial attribute editing in images and videos via the latent space of StyleGAN.

**Horizon Robotics**                                                          Beijing, China
Research Intern                                                             Jul 2018 - Oct 2018
  – Gesture recognition/Lip reading
  – Explored multimodal method for lip reading/voice separation.

**Technicolor**                                                               Rennes, France
Research Intern (Supervisor: Dr. Patrick Pérez and Dr. Gilles Puy)          Jan 2018 - Jun 2018
  – 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.

**Criteo**                                                                   Munich, Germany
Business Intelligence Analyst Intern                                         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*