

# CHANGQING FU

<https://changqingfu.com> ◊ [cfu@ceremade.dauphine.fr](mailto:cfu@ceremade.dauphine.fr) ◊ [evergreencqfu@gmail.com](mailto:evergreencqfu@gmail.com)

Place du Maréchal de Lattre de Tassigny ◊ 75016 Paris, France

## EDUCATION

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<b>University of Paris 9 Dauphine - PSL, Paris AI Institute (PRAIRIE)</b>	Dec 2019 - Present
<i>PhD in Mathematics and Computer Science. Thesis: Geometry in Generative Models.</i>	<i>Paris, France</i>
<b>University of Paris 9 Dauphine - PSL</b>	Sep 2018 - Aug 2019
<i>MSc in Theoretical &amp; Applied Mathematics. Thesis: Bayesian Learning for Fluid Dynamics.</i>	<i>Paris, France</i>
<b>University of Paris 7 Diderot - Université Paris Cité</b>	Sep 2017 - June 2018
<i>Maîtrise in Applied Mathematics. Thesis: Finite Element Methods for 2D Wave Equation.</i>	<i>Paris, France</i>
<b>School of Mathematical Sciences, Fudan University</b>	Sep 2013 - Jul 2017
<i>Bachelor in Mathematics. Thesis: Kernel Methods in Metric and Manifold Learning.</i>	<i>Shanghai, China</i>

## WORK EXPERIENCES

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<b>Paris AI Institute (PRAIRIE)</b>	Dec 2019 - Present
<i>Research Assistant. Generative Model Architectures.</i>	<i>Paris, France</i>
<b>Ping An Insurance</b>	May 2018 - Sep 2018
<i>Machine Learning Engineer. Recommendation System &amp; Business Intelligence Group.</i>	<i>Shanghai, China</i>
· (Language: Python, Scala, SQL) Large-scale machine learning on customer/agent transaction and behavioral data with Hive database. Kaggle data challenges. Patenting. Presenting to the business side.	
<b>Shanghai Safor Intelligence Technology Company Limited</b>	Jan 2016 - Sep 2016
<i>Innovation Program. Startup Company.</i>	<i>Shanghai and Harbin, China</i>
· (Language: C++, Python) Real-time flame detection model. Put model into production for surveillance camera. The research paper was recommended to a conference in Harbin Institute of Technology in Oct 2016.	
<b>East China State Grid</b>	Jun 2016 - Jan 2017
<i>Research Assistant. Machine Learning.</i>	<i>Shanghai and Suzhou, China</i>
· (Language: R) 24-hour short-term electricity grid forecasting with SVM model. Built a documented online learning API with the R language and reported to the headquarter in Suzhou.	
<b>Central China Securities Holding Company Limited</b>	Jul 2015 - Sep 2015
<i>Research Assistant. Quantitative Finance.</i>	<i>Shanghai, China</i>
· (Language: Matlab) Event-driven ANOVA statistical analysis and back-testing with financial data API.	

## ACADEMIC EXPERIENCES

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- Reviewer duties for ICCV, ECCV, AISTATS, AAAI, ICLR conferences and NeurIPS workshops.
  - Google TRC research grant. IDRIS computing cluster allocation.
  - Changqing Fu and Laurent D. Cohen. *Conic Linear Units: Seamless Model Fusion and Rotational Symmetric Generative Models*. In the 19th International Conference on Computer Vision Theory and Applications 2024.
  - Changqing Fu and Laurent D. Cohen. *DeepPrism: Channel Convolution for Lightweight Generative Model*. In Proceedings of the 2023 5th International Conference on Video, Signal and Image Processing. The ACM International Conference Proceeding Series. (Best Presentation Award).
  - Changqing Fu and Laurent D. Cohen. *Geometric Deformation on Objects: Unsupervised Image Manipulation via Conjugation*. In Scale Space and Variational Methods in Computer Vision 2021, Springer LNCS 12679.
  - Poster in Workshop on Geometry-Informed Machine Learning, Mines ParisTech, July 3-4, 2023, Paris.
  - Stability AI Research Program, 12-14 Sep, 2023, London.
  - Poster presenter in Symposium on AI in Biology and Health, Institut Pasteur, July 3-4, 2023, Paris.
  - Oral Speaker in Ellis Unconference, Session of Generative Models, July 25, 2023, Jouy-en-Josas,
  - Poster presenter in workshop on Optimization and Machine Learning, June 26-27 2023, Toulouse.
  - Speaker in Young Researcher Seminar, June 2 2023, Feb 2 2023, Feb 28 2022, Jan 20 2022, Paris.
  - Speaker in Winter School for Young Researchers, CEREMADE, Feb 28 2022, Normandy.
  - General Session Speaker, "AI in Healthcare", INFORMS Meeting, Oct 25, 2021, Virtual and CA.
  - Invited speaker in Applied Mathematics Seminar, Sep 13, 2021, Fudan University, Shanghai.
  - Speaker in Artificial Intelligence Interdisciplinary Institutes (3IA) Workshop, Nov 2021, Toulouse.