Zhenyu.LIAO

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Personal information
Date of Birth: 28/Aug/1992
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Education

- Ph.D. in Statistics and Signal Processing, Laboratoire des signaux et systèmes, CentraleSupélec, France 2016-present
  - Thesis: A Random Matrix Approach to Deep Neural Networks Analysis.
  - Supervisor: Prof. Romain Couillet, Prof. Yacine Chitour.
- M.Sc. in Signal and Image Processing, CentraleSupélec/Université Paris-Sud, France 2014-2016
  - Thesis: Random matrix analysis of Support Vector Machines.
  - Supervisor: Prof. Romain Couillet
- B.Sc. in Information, System and Technology, Paris-Sud University, France 2013-2014
- B.Sc. in Optical & Electronic Information, Huazhong university of Science and Technology, China 2010-2014

Internship

Intern, Large Networks and Systems Group, CentraleSupélec. Summer 2016
- Random matrix analysis of Support Vector Machines.
- Supervisors: Prof. Romain Couillet

Intern, l'Institut d'Électronique Fondamentale, CNRS, France. Summer 2015
- Modeling and circuits design of thermoelectric system.
- Supervisors: Damien Querlioz and JérômSaint Martin

Intern, FiberhomeTech.Co.Ltd, China. Summer 2014
- Assistant in a technical conference on network and telecommunication.
- Supervisors: Prof. Zhiyong TAO

Publications

- Z. Liao, R. Couillet, "**Random Matrices Meet Machine Learning: A Large Dimensional Analysis of LS-SVM**", IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'17), New Orleans, USA, 2017.
- Z. Liao, R. Couillet, "**A Large Dimensional Analysis of Least Squares Support Vector Machines**", (submitted to) Journal of Machine Learning Research, 2017.
- C. Louart, Z. Liao, R. Couillet, "**A Random Matrix Approach to Neural Networks**", (submitted to) Annals of Applied Probability, 2017.

Research interests

- Statistical learning theory
- Random matrix theory