

Zhenyu.LIAO

Present Address

CentraleSupélec, L2S
Office A5.18
3 rue Joliot Curie
91192, Gif-sur-Yvette, France
(+33)6-67-81-50-05

Personal information

Date of Birth: 28/Aug/1992
Sex: Male
Citizenship: Chinese
E-mail: zhenyu.liao@l2s.centralesupelec.fr
Website: <https://zhenyu-liao.github.io/>

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 [Jérôme Saint 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) Journal of Multivariate Analysis, 2017.

Research interests

- Statistical learning theory
- Random matrix theory