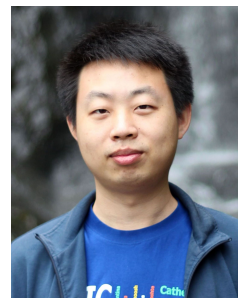


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STRENGTHS

- Knowledge and experience in signal processing and data analysis
- Ability to analyze and extract model from complicated real world data
- Flexible and a quick learner

CAREER INTERESTS

Signal processing, image processing, data analytics, time series analysis

EDUCATION

Ph.D. in Computer and Communication Sciences Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland	2013 – 2018
M.Phil. in Electronic Engineering The Chinese University of Hong Kong (CUHK), Hong Kong	2010 – 2013
B.Sc. in Electronic Engineering (first honor) The Chinese University of Hong Kong (CUHK), Hong Kong	2006 – 2010

SKILLS

Programming	Python (Numpy/Scipy, sympy, matplotlib, plotly, theano, joblib, pandas), Matlab, Bash scripting, TaQL (SQL), C / C++
Technical Tools	Git, Jupyter, IPython Parallel, Vim, L ^A T _E X, Microsoft Office, Mathematica
Operating Systems	Linux, MacOS, Windows

EXPERIENCE

Audiovisual communications Laboratory, EPFL Research Assistant (advisor: Prof. Martin Vetterli) Thesis: <i>Looking beyond pixels: theory, algorithms and applications of continuous sparse recovery</i> <ul style="list-style-type: none">• 5 years of research experience in designing robust algorithms in signal processing• Time series analysis in acoustics• Applications of advanced signal processing techniques to astronomy, microscopy and neurosciences• Working under pressure with tight deadlines• Supervising master students in research projects	2013 – present
IBM Research Zürich (6-month internship) Research Engineer (manager: Dr. Paul Hurley) <ul style="list-style-type: none">• Work in the department of cognitive computing & industry solutions• Pre-processing vast amount of noisy data from a radio telescope• Design and implement innovative algorithms for source estimation in radio astronomy	2016 – 2017

AWARDS AND HONORS

IBM Research Award 2019 (nomination)	2018
EPFL School of Computer and Communication Sciences fellowship	2013
CUHK Graduate School studentship	2010 – 2012
Prof. Charles Kao research exchange scholarship	2010
CUHK Electronic Engineering Alumni Association Scholarship	2007, 2008

LANGUAGES

English (full proficiency)
Mandarin Chinese (mother tongue)
Cantonese (work proficiency)
French (basic, A1)

EXTRACURRICULAR ACTIVITIES

Alpine skiing, hiking, cycling (a few tours around Lake Geneva)
Subscriber to *Nature* and *The Economist*

PERSONAL INFORMATION

Hong Kong citizen, single, Swiss residence permit B

SELECTED PUBLICATIONS

Journal Articles

- [8] **Pan, H.**, Simeoni, M., Hurley, P., Blu, T., Vetterli, M., “LEAP: Looking beyond pixels with continuous-space Estimation of Point sources”, *Astronomy & Astrophysics*, vol. 608, A136, 2017.
- [7] **Pan, H.**, Blu, T., Vetterli, M., “Towards generalized FRI sampling with an application to source resolution in radioastronomy”, *IEEE Transactions on Signal Processing*, vol. 65, no. 4, pp. 821–835, 2017.
- [6] **Pan, H.**, Blu, T., Dragotti, P.-L., “Sampling curves with finite rate of innovation”, *IEEE Transactions on Signal Processing*, vol. 2, pp. 458–471, 2014.
- [5] **Pan, H.**, Blu, T., “An iterated linear expansion of thresholds for ℓ_1 -based image restoration”, *IEEE Transactions on Image Processing*, vol. 22, no. 9, pp. 3715–3728, 2013.

Conference Papers

- [4] **Pan, H.**, Scheibler, R., Bezzam, E., Dokmanić, I., Vetterli, M., “FRIDA: FRI-based DOA estimation for arbitrary array layouts”, in *2017 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2017, pp. 3186–3190.
- [3] **Pan, H.**, Blu, T., Vetterli, M., “Annihilation-driven localised image edge models”, in *2015 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Brisbane: IEEE, 2015.
- [2] **Pan, H.**, Blu, T., “Sparse image restoration using iterated linear expansion of thresholds”, in *2011 IEEE International Conference on Image Processing (ICIP)*, Brussels, Belgium, 2011, pp. 1905–1908.
- [1] **Pan, H.**, Blu, T., Dragotti, P.-L., “Sampling curves with finite rate of innovation”, in *2011 Sampling Theory and Applications (SampTA2011)*, Singapore, 2011.