WANG YAN NAN, DUSTIN

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EDUCATION

Ph.D. in Information Engineering

The Chinese University of Hong Kong

Sept 2016 – Ongoing Sha Tin, Hong Kong S.A.R., China

B.Eng in Information Engineering

The Chinese University of Hong Kong

Sept 2012 – July 2016 Sha Tin, Hong Kong S.A.R., China

- ELITE stream
- First-class honour

AWARDS AND SCHOLARSHIPS

Best (Research) Project Award
One recipient of the best summer undergraduate research internship awarded by Faculty of Engineering, CUHK in 2015

Head's list (merit)
Awarded by New Asia College, CUHK in 2014 and 2015

Ho & Ho Foundation Admission Scholarship
Full tuitioin coverage and living expenses for study in CUHK from 2012 to 2016

RESEARCH INTERESTS

- Network Information Theory
- Hypercontractivity and related inequalities
- Distributed Source Coding

PUBLICATIONS

Authors are all in alphabetical order.

- M. Costa, C. Nair, D. Ng and Y. N. Wang, "On the structure of certain non-convex functionals and the Gaussian Z-interference channel", presented at the International Symposium on Information Theory, Los Angeles, June 2020 (ISIT 2020).
- C. Nair and Y. N. Wang, "On optimal weighted-sum rates for the modulo sum problem", presented at the International Symposium on Information Theory, Los Angeles, June 2020 (ISIT 2020).
- C. Nair and Y. N. Wang, "Reverse hypercontractivity region for the binary erasure channel", presented at the International Symposium on Information Theory, Aachen, June 2017 (ISIT 2017).
- C. Nair and Y. N. Wang, "Evaluating hypercontractivity parameters using Information Measures", presented at the International Symposium on Information Theory, Barcelona, June 2016 (ISIT 2016).

TALKS

- *Evaluation for hypercontractivity and reverse-hypercontractivity parameters for the binary erasure channel* CSE Theory Lunch Talk (at) CUHK, 11:30 am-12:30 am, Nov 20, 2015, SHB 1021B.
- *Capacity Upper Bounds for the Relay Channel via Reverse Hypercontractivity* CSE Theory Lunch Talk (at) CUHK, 11:00 am-12:00 am, Oct 11, 2019, SHB 833.
- *Log-Convexity of Fisher Information along the Heat Flow* CSE Theory Lunch Talk (at) CUHK, 11:00 am-12:00 am, May 15,2020, SHB 801.
- *Gradient Descent* ITCSC Reading Group (at) CUHK, 10:30 am-11:30 am, July 6, 2020, SHB 801.
- *Mirror Descent and the Multiplicative Weight Update Method* ITCSC Reading Group (at) CUHK, 10:30 am-11:30 am, July 13, 2020, SHB 801.