

## Curriculum Vitae

Daniel Ebler

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## Education

2015-present	PhD in Computer Science, The University of Hong Kong in Hong Kong
2014-2015	PhD in Physics, IIS Institute, Tsinghua University in Beijing, China
2012-2014	Master of Science in physics at ETH Zurich, Switzerland. Graduation mark: 5.77 (highest 6.0, lowest 1.0)
2009-2012	Bachelor of Science in physics at ETH Zurich, Switzerland. Graduation mark: 5.24 (highest 6.0, lowest 1.0)
2008-2009	Alternative civilian service, catholic welfare center in Weil am Rhein, Germany
1999-2008	High School in Weil am Rhein, Germany. Graduation mark: 1.2 (highest 1.0, lowest 6.0)

## Projects and conferences

2017	Invited Talk at Hong Kong Baptist University, Hong Kong. Title: Postgraduate Studies in Science.
2017	Presentation at the conference "QIP" in Seattle, Microsoft Research, United States. Title: Optimal Quantum networks and one-shot entropies.
2015	Talk at the conference "AQIS" at KIAS in Seoul, Korea. Title: Optimal Compression for Ensembles of Identically Prepared Mixed States.
2013	Master Thesis at ETH Zurich, Institute of Theoretical Physics (Quantum Information Theory). Title: The N-Representability Problem in the Dennis Borland Setting.
2013	Presentation at the conference "Quantum Marginals" at the Newton Institute, The University of Cambridge, England. Title: Pinning of

Fermionic Systems and its Applications.

2012 Bachelor Thesis at ETH Zurich, Institute of Theoretical Physics (Quantum Information Theory). Title: Pinning of Fermionic Systems. Supervisor: Prof. Matthias Christandl

## Publications

2017 D. Ebler, S. Salek, G. Chiribella, *Enhanced Communication With the Assistance of Indefinite Causal Order*, Phys. Rev. Lett. (submitted).

2016 G. Chiribella, D. Ebler, *Optimal quantum networks and one-shot entropies*, New Journal of Physics 18.9 (2016): 093053

2016 F. Tennie, D. Ebler, V. Vedral, C. Schilling, *Pinning of Fermionic Occupation Numbers: General Concepts and One Dimension*, Phys. Rev. A 93,042126

2016 Y. Yang, G. Chiribella, D. Ebler, *Efficient quantum compression for ensembles of identically prepared mixed states*, Phys. Rev. Lett. 116, 080501

## Awards

2017 HKIS Young Scientist Award

2015 Computer Science Postgraduate Fellowship, The University of Hong Kong

2014 Master of Science with distinction. ETH Zurich, Switzerland.

2008 Price for extraordinary achievements. Kant-Gymnasium Weil am Rhein, Germany

## Languages

German	Mother Tongue
English	Fluent
Mandarin	Excellent command
French	Very good command
Cantonese	Good command