

# CURRICULUM VITAE

## MATHIS AURELIUS ANTONY

1/F 250 Tai Po Tsai Village  
Clear Water Bay  
Sai Kung  
New Territories  
Hong Kong

Gender: Male  
Date of birth: December 31, 1985  
Place of Origin: Kleinlützel, Switzerland  
Present Citizenship: Swiss

Phone: (+852) 9136 9416  
e-mail: [mathis.antony@gmail.com](mailto:mathis.antony@gmail.com)

---

### EDUCATION

since 2012	PhD Candidate, Physics, Hong Kong University of Science and Technology (HKUST)
2009 – 2011	MPhil Physics, HKUST, GPA: A-
2006 – 2009	BSc Physics, École Polytechnique Fédérale de Lausanne (EPFL), GPA: 5.1/6

---

### WORK

since Sept 2012	Teaching assistant for courses in “Information Physics” and “Thermodynamics and Statistical Physics”
2011 – 2012	CEO/Co-founder at Noware Limited: Hong Kong based software start up creating an open peer review web service for academic publishing.
2009 – 2011	Teaching assistant for courses in “Information Physics”, “Thermodynamics and Statistical Physics” and “Quantum Mechanics”
2007 – 2008	Assistant in logistics and physical chemistry laboratories, Solvias AG, Basel, part time
2006 – 2008	Secondary school teacher in German, English, mathematics, applied mathematics, geography and biology at “Sekundarschule Meltingen-Zullwil” in Meltingen and “Sekundarschule Hinterzweien” in MuttENZ-BL, Switzerland, part time

---

### RESEARCH

2012 – 2013	PhD Research in opinion formation on complex network supervised by Prof K. Y. Szeto.
2009 – 2011	MPhil Thesis research in evolutionary game theory supervised by Prof K. Y. Szeto.
2008 – 2009	Independent Study Project under supervision of Prof K. Y. Szeto on dynamics of spin systems and evolutionary game theory. Grade: A

---

### COMPUTER SKILLS

Skills:	C/C++, Python, Matlab, Linux, git
Applications:	Complex Networks, Genetic Algorithms, Monte Carlo Simulations, Markov Chains, Support Vector Machines, Decision Trees, Gaussian Processes, Bayesian Networks, Topic Models

---

### LANGUAGES

German	native
English	fluent
French	fluent
Norwegian	fluent

---

## PUBLICATIONS

- Mathis Antony, Degang Wu, and K.Y. Szeto. “Partial Imitation Hinders Emergence of Cooperation in the Iterated Prisoner’s Dilemma with Direct Reciprocity”. In: *Applications of Evolutionary Computation*. Ed. by AnnaI. Esparcia-Alcàzar. Vol. 7835. Lecture Notes in Computer Science. Springer Berlin Heidelberg, 2013, pp. 92–101. ISBN: 978-3-642-37191-2. DOI: [10.1007/978-3-642-37192-9\\_10](https://doi.org/10.1007/978-3-642-37192-9_10). URL: [http://dx.doi.org/10.1007/978-3-642-37192-9\\_10](http://dx.doi.org/10.1007/978-3-642-37192-9_10)
- Degang Wu, Mathis Antony, and K. Y. Szeto. “Evolution of Grim Trigger in Prisoner Dilemma Game with Partial Imitation”. In: *EvoApplications 2010, Part I*. ed. by C. Di Chio et al. Vol. 6024. Lecture Notes in Computer Science (LNCS). Barcelona, Spain: Springer-Verlag (Berlin), 2010, pp. 151–160. DOI: [10.1007/978-3-642-12239-2\\_16](https://doi.org/10.1007/978-3-642-12239-2_16)
- Degang Wu, Mathis Antony, and Kwok Yip Szeto. “Partial Imitation Rule in Iterated Prisoner Dilemma Game on a Square Lattice”. In: *NICSO*. vol. 284. Studies in Computational Intelligence. Springer, 2010, pp. 141–150. DOI: [10.1007/978-3-642-12538-6\\_12](https://doi.org/10.1007/978-3-642-12538-6_12)

---

## AWARDS & SCHOLARSHIPS

2012 – 2013	Post Graduate Studentship from Department of Physics HKUST
2009 – 2011	Post Graduate Studentship from Department of Physics HKUST
2010 & 2011	Best Teaching Assistant Award 2009-10 and 2010-11 from HKUST Department of Physics
2008	Exchange Scholarship from EPFL

---

## EXTRACURRICULAR

2011	Co-founded Hong Kong Hackerspace “DimSumLabs” in Sheung Wan
2008 – 2009	University exchange to HKUST
2004 – 2008	Volunteer camp coordinator for AFS Intercultural Programs Switzerland
2005 – 2006	Member of Commission for Environment- and Nature Protection in Himmelried, Switzerland
2003 – 2004	High school exchange with AFS Intercultural Programs to Sandnes, Norway

---

## INTERESTS

Programming, Machine Learning, Linux, L<sup>A</sup>T<sub>E</sub>X, Evolutionary Game Theory, Poker, Photography, Travel

---

## REFERENCES

Supervisor of MPhil thesis research:

**Kwok Yip Szeto**  
*Associate Professor*      (+852) 2358 7479  
Room 4476      [phszeto@ust.hk](mailto:phszeto@ust.hk)  
HKUST  
Clear Water Bay  
Hong Kong

A course instructor I worked for:

**Xiangrong Wang**  
*Professor*      (+852) 2358 7488  
Room 4454      [phxwan@ust.hk](mailto:phxwan@ust.hk)  
HKUST  
Clear Water Bay  
Hong Kong

Regarding studies at EPFL:

**Laurent Villard**  
*Professor*      (+41) 21 693 45 64  
PPB315      [laurent.villard@epfl.ch](mailto:laurent.villard@epfl.ch)  
EPFL  
1015 Lausanne  
Switzerland

My former business partner at Noware Limited:

**Stewart Mackenzie**  
*Director*      (+852) 6072 3314  
Noware Limited      [setori88@gmail.com](mailto:setori88@gmail.com)  
GF 196 D  
Tai Po Tsai Village  
Hong Kong

Hong Kong, April 11, 2013