

Jason Bassett

Curriculum Vitae

Updated on 23/8/2018

Ph.D. Candidate at TU Berlin

Personal Information

Date of birth November 1st, 1988
Place of birth Melbourne, Australia
Nationalities Greek/Australian
Marital status Single

Present affiliation

Technische Universität Berlin, *Institut für Theoretische Physik, Sekr. EW 7-1*,
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Education

2015–
December
2018
(expected) **Ph.D. in Physics**, *Technische Universität Berlin, Berlin, Germany.*

Ph.D. Thesis

title *Computational and Analytical Approaches to Describe, Assess and Mitigate Epidemic Spread on Temporal Networks*

advisor Prof. Philipp Hövel

2013–2015 **M.Sc. in Materials Science and Engineering**, *Masdar Institute of Science and Technology, Abu Dhabi, U.A.E.*

Master Thesis

title *Passive Air Flow Engineering for Sand Accumulation Minimization on Surfaces: A Proof of Concept*

advisor Dr. Ahmed D. Aljaberi

2006–2013 **B.Sc. in Physics**, *University of Athens (U.O.A.), School of Sciences, Athens, Greece.*

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Bachelor Thesis

- title *A Comparative Case Study Between the Deterministic and Stochastic Population Dynamics' Model SIRS"*
- supervisors Dr. Astero Provate (N.C.S.R. "Demokritos") and prof. Konstantinos Eftaxias (U.O.A.)
- 1994–2012 **Classical piano degree**, "Glyfada Conservatory", Athens, Greece.

Publications

- 2018 Jörn Gethmann, Hartmut Lentz, Jason Bassett, Philipp Hövel, et al.: A cost-benefit analysis of different control strategies for BVDV in Thuringia, Germany, in preparation.
- 2018 E. Valdano, A. Koher, J. Bassett, A. Darbon, P. Hövel, V. Colizza: GRAZE: A generic and standardized Python package for the analysis of livestock trade data, in preparation.
- 2018 E. Valdano, A. Koher, J. Bassett, P. Hövel, V. Colizza, et al.: Cattle trade movements and livestock infections in Europe, in preparation.
- 2017 L. Bauer, J. Bassett, P. Hövel, Y. N. Kyrychko, K. B. Blyuss: Chimera states in multi-strain epidemic models with temporary immunity, *Chaos*, **27**, 11, 114317.
- 2015 J. Bassett, M. Shahin, A. S. Dalaq, D. Suwan: An assessment of ocean wave, thermal and salinity energy potential in the junction of the Arabian Gulf and the Gulf of Oman, *Environment and Electrical Engineering (EEEIC)*, 2015 IEEE 15th International Conference on EEEIC.

Professional Experience

- 04.2012– **Visiting Researcher**, Bologna, Italy.
- 05.2012 Parallelisation of epidemiological simulation codes in the CINECA facilities in Bologna. Project in collaboration with professor Antonio Politi of the I.S.C.–C.N.R. in Florence.
- 01.2014– **Assistant in X-Ray Diffraction scans and analysis of prof. Ahmed Aljaberi**,
01.2015 Abu Dhabi, U.A.E.
XRD room, Masdar Institute Undercroft.
- 09.2014– **Teaching Assistant in "Kinetics of Materials" under prof. Ahmed Aljaberi**,
12.2014 Abu Dhabi, U.A.E.
Masdar Institute.
- 01.2014– **Teaching Assistant in "Electromagnetism and Applications" of prof. Marcus Dahlem**, Abu Dhabi, U.A.E.
05.2014 Masdar Institute.
- 09.2013– **Teaching Assistant in "Advanced Engineering Mathematics" of prof. Rashid K. Abu Al-Rub**, Abu Dhabi, U.A.E.
12.2013 Masdar Institute.
- 03.2010– **Instructor of music theory, morphology and history of western music classes**,
06.2013 Athens, Greece.
"Glyfada Conservatory".

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- 10.2007– **Software Assistant**, Athens, Greece.
10.2008 “Monopoly” real-estate office (database handling).

Languages

Greek	Native	<i>High School Graduation</i>
English	Bilingual	<i>Cambridge Proficiency (2004)</i>
German		<i>B2 CEFR</i>
Italian		<i>Basic knowledge</i>
French		<i>Basic knowledge</i>

Computing skills

Operating Systems	MS Windows, Unix-like OS (Linux Debian and Ubuntu flavours).
Programming	Python (Advanced), FORTRAN (Intermediate), C++ (Advanced), MATLAB (Intermediate), HTML and CSS (Intermediate), SQL databases -SQLite dialect- (Intermediate).
Queuing Systems, Parallelisation and Clusters	HTCondor queuing system. Familiarity with MPI (FORTRAN) and distributed memory architecture.
Numerical	MATLAB (Advanced), Mathematica (Advanced).
CFD-CAD packages	ANSYS Fluent (Intermediate), Solid Works (Intermediate).
Typesetting	L ^A T _E X(Advanced).

Analytical Skills

Data Analysis:	Statistical methods and machine learning.
Modelling:	Experienced in deterministic and stochastic ODE and retarded functional systems.

Technical Skills

SEM Imaging:	Scanning Electron Microscopy (Intermediate).
EDS Characterisation:	Electron Dispersive Microscopy (Intermediate).
XRD Crystallography:	X-Ray Diffraction Crystallography (Intermediate).

Interests

Open sea sailing:	skipper license 2008
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Martial Arts: Tae-Kwon-Do I.T.F.: black belt, 1st dan 2004. Brazilian Jiu-Jitsu since April 2017
Choir singing: Taborkirche Choir (2015-2106) and TU/FU Chamber Choir (2016–present) in Berlin, Germany.

References

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- Astero Provata, Dr.
Institute of Nanoscience and Nanotechnology.
National Centre for Scientific Research “Demokritos”.
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Website: <http://limnos.chem.demokritos.gr/aprovata/indexaprovata.html>
- Ahmed Aljaberi, Assistant Professor.
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