

# Hadi Susanto

---

## Address

Department of Mathematical Sciences  
Wivenhoe Park  
University of Essex  
Colchester CO4 3SQ

Phone: +44 1206 87 3040  
Fax:  
Email: [hsusanto@essex.ac.uk](mailto:hsusanto@essex.ac.uk)  
Web: [privatewww.essex.ac.uk/~hsusanto/](http://privatewww.essex.ac.uk/~hsusanto/)  
Orcid id: 0000-0003-0425-107X

## EDUCATION

### *University of Twente*

Doctor, Applied Mathematics 19 January 2006  
Thesis: Josephson junctions with phase-shifts - Stability analysis of fractional fluxons  
Advisor: S.A. van Gils

Master of Mathematical Sciences, Applied Mathematics 20 June 2003  
Thesis: Static semifluxons in a long Josephson junction with  $\pi$ -discontinuity points  
Advisor: S.A. van Gils

### *Bandung Institute of Technology*

Bachelor of Science (with Distinction), Mathematics 7 July 2001  
Thesis: *Drying a liquid paint layer*  
Advisors: B.W. van de Fliert and E. Soewono

## PROFESSIONAL TRAINING

Associate Fellow of the Higher Education Academy 15 February 2013

## PROFESSIONAL EXPERIENCE

### *University of Essex*

Associate Professor in Applied Mathematics September 2013 – present

### *University of Nottingham*

Assistant Professor in Applied Mathematics January 2008 – December 2013

### *University of Massachusetts, Amherst*

Visiting Assistant Professor September 2005 – December 2007

## RECOGNITION

Invitee in "World Class Professors" program, Ministry of Research, Technology, and Higher Educations, Government of Republic of Indonesia, 24 July – 03 September 2017 [assigned to Institut Teknologi Sepuluh Nopember, Surabaya].

Invitee in "Visiting World Class Professors" program, Ministry of Research, Technology, and Higher Educations, Government of Republic of Indonesia, 17–23 December 2016 [only 40 people invited as consultants].

The 2000 Ganesa Prize (ITB Best Student)

### **DEPARTMENTAL SERVICE**

Director of Research [Deputy Head of Department – Research], September 2016 – present.

Head of Mathematics group, January 2014 – present.

Deputy Director of Research, October 2015 – August 2016.

Postgraduate Teaching Project Coordinator, October 2014 – August 2016.

Graduate Teaching Assistant Coordinator, October 2014 – August 2016.

Deputy Graduate Director, January 2014 – August 2016.

Member of Department Steering Group Mathematical Sciences, September 2016 – present.

Department Research Committee Mathematical Sciences, January 2014 – present [Chair since September 2016].

Member of Department Scholarships Committee, September 2016 – present.

Member of Research Student Progress Committee, September 2016 – present.

Member of Staff/Student Liaison Committee for Year 2 and PGR, January 2014 – August 2016.

Member of PG Extenuating Circumstances Committee, September 2016 – present.

Member of Boards of Management for Mathematics and Mathematics with Physics, September 2016 – present.

Panel member of School of Health and Human Sciences conjoint periodic review and Nursing & Midwifery Council validation, 22 March 2016.

Essex University Undergraduate Open Days, 2014 – present.

Panel member of BA (Hons) Multimedia Journalism Validation, University of Essex, 9 December 2014.

Panel member of Periodic Review of the Department of Biological Sciences, University of Essex, 13 March 2014.

Course Director (MSci & BSc Hons) Mathematical Physics, September 2011 – December 2013

Member of University of Nottingham Regional Advisory Networks for South East Asia, 2012–2013.

Postgraduate Student Teacher Mentor, September 2008 – 2011.

Postgraduate Teaching Support Officer, September 2008 – 2011.

Staff Development Officer, January – September 2008.

## GRANT

EPSRC, SPIN SPACE (Spatially encoded telecoms and quantum technologies using spin-enabled all-optical switching), April 2015 – March 2018, Essex: I. Henning and H. Susanto (PIs), M. Adams, N. Balkan, Bristol: R. Oulton (PI), J. Rorison, E. Harbord, total £2M FEC [£0.85M to Essex].

University of Essex "Frontrunners", October 2015 - March 2016, £2.6K.

Program Riset Institut Teknologi Bandung, "Existence and stability of solitons in the theory of  $N = 1$  chiral global supersymmetry in 4D", 2016, PI: Bobby Eka Gunara, IDR 17M (~£0.87K).

British Council – Indonesia Second City Partnership Travel Grant, 2015, £3K.

London Mathematical Society visitor grant, 2014, £1.3K.

University of Nottingham research summer bursary, June-September 2013, £1.5K.

EPSRC research summer bursary, June-September 2012, £2.2K.

EPSRC Research Development Fund – Bridging the Gaps, "Creating dark and bright solitons through accelerated transport of an impurity in a Bose-Einstein Condensate", 1/1-30/6 2012, PI: Lucia Hackermüller, £19K.

London Mathematical Society visitor grant, 2011, £1K.

Univ. of Nottingham Interdisciplinary High Performance Computing (iHPC), "HPC simulation of coherent structures in waveguide arrays", 2010-2013, Co-PI: T.M. Benson, £30K.

Univ. of Nottingham Interdisciplinary High Performance Computing (iHPC), "HPC simulations of atom chips: from nanoscience to cosmology", 2009-2012, PI: T.M. Fromhold, £30K.

Royal Society travel grant, 2009, £400.

Joint AARMS-CRM Workshop on Recent Advances in Functional and Delay Differential Equations, Halifax, Canada, 1-5 November 2007, \$1k CAN.

The 5<sup>th</sup> IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, 16-19 April 2007, \$300.

PIMS-Vigre Workshop on Stability of Nonlinear Waves, Seattle, WA, 6-8 September 2006, \$300.

SIAM Nonlinear Waves and Coherent Structures Conference (NW04), Orlando, FL, 2-4 October 2004, \$500.

NATO ASI 980684 "Self-Assembly, Pattern Formation and Growth Phenomena in Nano-Systems", St. Etienne de Tineé, France, 28 August-11 September 2004, \$400 for travel costs and \$60 per diem for lodging costs.

International Superconducting Electronics Conference ISEC 2003, Sydney, 7-11 July 2003, \$500 (declined).

EPAM Scholarship for a visit to the University of Twente, The Netherlands, Aug. 2000 - May 2001.

Several scholarships during undergraduate study, including the Sanwa Bank Foundation Scholarship, 2000.

### **ORGANIZER/SESSION CHAIR**

3rd Eastern Arc Conference on Topological Solitons and Quantum Fluids, University of Essex, 02 June 2017.

Indonesian Scholars Forum (ISF) 2015, London, 3 October 2015.

'Nonlinear Waves in Metamaterials: Theory and Applications' minisymposium [2 sessions, co-organise with V. Rothos], 2014 SIAM Conference on Nonlinear Waves and Coherent Structures NW14, Cambridge 11-14 August 2014.

Industrial and Computational Mathematics Seminars, Univ. of Nottingham, September – December 2013.

(Session chair) 'Coherent Structures in Discrete and Continuous Systems 5', SIAM Conference on Nonlinear Waves and Coherent Structures 2006 (NW06), Seattle 9-12 Sept. 2006.

'Nonlinear Optics and Optical Coherent Structures' minisymposium, British Applied Mathematics Conference (BAMC), Nottingham 7-9 April 2009.

Theoretical Mechanics Seminar, Univ. of Nottingham, January-September 2009.

Internal mini-workshop "Homoclinic Snaking", Univ. of Nottingham, 28 June 2011.

### **REVIEWER FOR CONFERENCE/PROGRAM COMMITTEE MEMBER**

Symposium on Biomathematics (Symomath) 2017, Bandung, 27–29 August 2017.

Symposium on Biomathematics (Symomath) 2015, Bandung, 4–6 November 2015.

Indonesian Scholars International Convention 2015 (ISIC-TIIMI), London, 2–4 October 2015.

Indonesian Scholars International Convention (TIIMI) 2014, Oxford, 9 – 10 November 2014.

Symposium on Biomathematics (Symomath) 2013, Bandung, 27–29 October 2013.

Indonesian Scholars International Convention (TIIMI) 2013, London, 9 – 10 November 2013.

Indonesian Scholars International Convention (TIIMI) 2012, London, 9 – 11 November 2012.

Annual Meeting of Science and Technology Studies (AMSTECs) 2011, Tokyo, March 19-20th, 2011.

Indonesian Student International Scientific Conference (TIIMI) 2011, London, 2 – 4 December 2011.

Indonesian Student International Scientific Conference (TIIMI) 2010, London, 3 – 5 December 2010.

### **JOURNAL REFEREE**

Physical Review A, B, E, Letters

Physica B, C, D

Physics Letters A  
Journal of Physics A, B, Condensed Matter, Conference Series  
Nonlinearity  
Discrete and Continuous Dynamical Systems - Series S  
Journal of Mathematical Analysis and Applications  
Journal of Optics  
Journal of Mathematical Physics  
International Journal of Modern Physics C  
Journal of Engineering Mathematics  
IMA Journal of Applied Mathematics  
Abstract and Applied Analysis  
Journal of Computational and Applied Mathematics  
Mathematical Reviews  
International Journal of Biomathematics  
Journal of Mathematical and Fundamental Sciences  
Journal of Algorithms and Computational Technology  
Wave Motion  
EPL (Europhysics Letters)  
Nonlinear Dynamics  
Journal of Differential Equations  
Proceedings of the Royal Society A  
Mathematical Methods in the Applied Sciences  
International Journal of Mathematical Modelling and Computations  
Applied Mathematics and Computation  
Symmetry  
Scientific Reports  
Mathematics  
Philosophical Transactions of the Royal Society A  
Journal of Applied Mathematics

### **BOOK REFEREE**

CRC Press — Taylor & Francis Group

### **REVIEWER FOR FUNDING AGENCY**

Engineering and Physical Sciences Research Council (EPSRC) – UK.  
FONDECYT – Chile

### **TALK**

— **Invited talk**

- Minisynposium "Stability of Coherent Structures: a Geometric Approach", SIAM Conference on Nonlinear Waves and Coherent Structures, Orange, 11-14 June 2018.

- Dynamic Days Central Asia, Bukhara, 21-23 October 2017.
- One-day workshop on "Perturbation theory and its applications" (4 hours in total), Institut Teknologi Sepuluh Nopember, 31 August 2017.
- Guest lecture, Department of Mathematics, Institut Teknologi Sepuluh Nopember, 30 August 2017.
- (Plenary) Symposium on BioMathematics 2017, Bandung, 27–29 Aug 2017.
- Workshop on "How to get academic supervisors and create a joint research", Institut Teknologi Sepuluh Nopember, 22 August 2017.
- Civil Engineering Department seminar, Institut Teknologi Sepuluh Nopember, 21 August 2017.
- Physical Engineering Department seminar, Institut Teknologi Sepuluh Nopember, 16 August 2017.
- (Plenary) Seminar HAKTEKNAS 2017 on "Seminar Science Communication: membangun masyarakat berbasis ilmu pengetahuan", Ministry of Research, Technology, and Higher Education, Makassar, 11 Aug 2017.
- University Colloquium, Universitas Tadulako, Palu, 9 August 2017.
- Workshop on "Asymptotic methods and perturbation theory" (10 hours in total), Institut Teknologi Kalimantan, Balikpapan, 7–8 August 2017.
- Physics Department seminar, Institut Teknologi Sepuluh Nopember, 3 August 2017.
- Mathematics Department seminar, Institut Teknologi Sepuluh Nopember, 1 August 2017.
- Workshop of Indonesian Diaspora in the United Kingdom, Education and Culture Attaché, Indonesia Embassy, 8 July 2017.
- University Colloquium, Universitas Maarif Hasyim Latif, 23 December 2016.
- University Colloquium, Sepuluh Nopember Institute of Technology, 21 December 2016.
- Mathematics Seminars, International Islamic University Malaysia, 30-31 August 2016.
- Mathematics Seminar, Universitas Jendral Soedirman, 25 August 2016.
- Mathematics Seminar, Universitas Gadjah Mada, 25 August 2016.
- Mathematics workshop [5 hours each day], "Nonlinear Waves", Universitas Brawijaya, 22-24 August 2016.
- Mathematics Seminar, Universitas Jember, 19 August 2016.
- (Plenary) National Seminar in Mathematics and its Learning, Universitas Negeri Malang, 13 August 2016.
- (Plenary) National Seminar in Mathematics Education, Universitas Islam Nusantara, 6 August 2016.
- The Asian Mathematical Conference 2016, Bali, 24–28 July 2016.
- Wave dynamics in low-dimensional branched structures, 24 - 27 May 2016, Tashkent, Uzbekistan.

- Mathematics seminar, Sepuluh Nopember Institute of Technology, 26 August 2015.
- IMK Research seminar, University of Malaysia at Perlis, 24 August 2015.
- Mathematics seminar, Bandung Institute of Technology, 18 August 2015.
- Mathematics workshop (15 sessions of 2 hours each [6 hours@day], with R Marangell – Sydney Uni), "Dynamical Systems in PDEs", University of Indonesia, 10-15 August 2015.
- One-day workshop on "A brief introduction and numerical analysis of nonlinear waves", Andalas University, 6 August 2015.
- EGH2015 : Essex-Greenwich-Hertfordshire Workshop on Optimisation and Applied Mathematics 2015, Colchester, 3 June 2015.
- Minisymposium "Nonlinear phenomena in lattice systems", Dynamics Days 2015, Exeter, 6–10 September 2015
- Minisymposium "Nonlinear Waves in systems with PT symmetry", 2014 SIAM Conference on Nonlinear Waves and Coherent Structures (NW14), Cambridge August 2014.
- Leeds Applied Nonlinear Dynamics Seminars, University of Leeds, 18 February 2014.
- Numerical Analysis Seminars, University of Durham, 14 February 2014.
- Mathematics seminars (3 sessions of about 2.5 hours each), Jambi University, 5-6 September 2013.
- Mathematics seminar (2 sessions of about 2.5 hours each), Andalas University, 2-3 September 2013.
- Mathematics workshop, "Discrete Solitons" (5 lectures+5 tutorials of 2 hours each), Bandung Institute of Technology, 26-30 August 2013.
- Mathematical Sciences seminar, University of Essex, Colchester, 22 July 2013.
- Mathematics and Information Systems seminar, University of Northumbria, Newcastle, 15 May 2013.
- Patterns, Nonlinear Dynamics and Applications (PANDA) meeting, Nottingham, 19 April 2013.
- (Plenary) Sharia Economics Conference 2013, Hannover, 9 February 2013.
- Mathematics seminar, University of Birmingham, 16 October 2012.
- Strategic Contribution for Indonesia (SCI) Seminar 2012, Leeds, 8 September 2012.
- Mathematics seminar, University of Bath, 04 May 2012.
- Mathematics seminar, University of Jember, 20 December 2011.
- Mathematics seminar, University of Surrey, 15 December 2011.
- Mathematics seminar, University of Exeter, 14 November 2011.
- Physics seminar, Sepuluh Nopember Institute of Technology, 30 August 2010.
- Mathematics seminar, Brawijaya University, 5 August 2010.
- Lunchtime complexity seminar, University of Bath, 22 February 2010.

- Landau Seminar, University of Loughborough, 14 October 2009.
- Applied Mathematics Seminar, Univ. of Newcastle, 13th March 2009.
- Mathematics and Natural Sciences Department seminar, University of Surabaya, December 2008.
- Theoretical and Mathematical Physics Seminar, Univ. of Nottingham, 30 October 2008.
- Nonlinear Mathematics Seminars, University of Surrey, 12 September 2008.
- Engineering Mathematics Department seminar, University of Bristol, 25 January 2008.
- Applied Mathematics seminar, University of Nottingham, January 2008.
- Joint AARMS-CRM Workshop on Recent Advances in Functional and Delay Differential Equations, Halifax, Canada, Nov. 1-5, 2007.
- The 5<sup>th</sup> IMACS International Conference, Athens, GA, Apr. 19, 2007.
- Applied Analysis & Computation Seminar, Math. Department, UMass, Amherst, 10/24, 2006.

— **Contributed talk**

- International Symposium on Physics and Applications of Laser Dynamics, Paris, 15-17 November 2017 (poster).
- 2nd IMA Conference on Nonlinearity and Coherent Structures, Norwich, 19–21 June 2017.
- 1st Eastern Arc Conference on Topological Solitons and Quantum Fluids, Norwich, 23-24 June 2015.
- Equadiff 2011, Loughborough, 01–05/08, 2011.
- IMA Conference on Nonlinearity and Coherent Structures, Reading, 07/07, 2011.
- Workshop on Modelling Challenges for Next Generation Photonics, 25/11, 2009
- SIAM Conference on nonlinear waves and coherent structures (NW06), Seattle, 09/10, 2006.
- International Conference on Applied Mathematics 2005 (ICAM05), Bandung, 08/23, 2005.
- SIAM Nonlinear Waves and Coherent Structures Conference (NW04), Orlando, 10/4, 2004.
- The Annual Mesa+ meeting 2004, Enschede, 9/30, 2004 (poster).
- The Third IAMS-N (The Indonesian Applied Mathematics Society in the Netherlands) Seminar, Delft, 10/21, 2004.
- The First General Meeting of EPAM (The Extended Programme in Applied Mathematics) 2000/2004, Bandung, 7/01, 2002.
- The 7th International Conference on Materials and Mechanisms of Superconductivity and High Temperature Superconductors (M2S-HTS), Rio de Janeiro, 05/27, 2003 (poster).



- Symposium on Mathematical Support for Hydrodynamic Laboratories (LabMath), Bandung, 09/11, 2001.
- National Seminar & Mathematical Modelling Workshop "Contributions of Mathematics in Industrial World", Bandung, 03/28, 2000.
- Mathematics National Seminar & the Sixth Regional Conference of the Indonesian Mathematical Society (HimMI), Salatiga, 01/22, 2000.
- National Seminar of Association of Aerodynamics Specialists "Aerodynamics Theory, Experiment and Application", Bandung, 07/15, 1999.

### **VISITING POSITION (min. 1 week)**

Visiting Professor, Department of Mathematics, Institut Teknologi Sepuluh Nopember, Surabaya, 24 July – 01 September 2017.

Department of Mathematics, University of Indonesia, 10–15 August 2015.

Department of Mathematics, Bandung Institute of Technology, 20–31 August 2013.

### **SUPERVISION (\* = in progress)**

#### **— Probationary Junior Staff Mentoring**

- Dr Chris Antonopoulos (2017-2018)
- Dr Vanni Noferini (2017-2018)
- Dr Georgi Grahovski (2014-2016)

#### **— Postdoc**

- \* Nianqiang Li, 2016-2018 (joint with CSEE)
- \* Benjamin Cemlyn, 2015-2018 (joint with CSEE)

#### **— PhD**

- \* Awatf Alwiya, 2016-2019, "Community networks".
- \* Rahmi Rusin, 2015-2018, "Analysis of discrete systems".
- \* Yuslenita Muda, 2015-2018, "Bifurcations in Schrödinger systems with double-well potential".
- \* Amal Jasim Mohammed, 2015-2018, "Discrete nonlocal Schrödinger equations" (Co-supervisor: Georgi Grahovski)
- \* Junaid Idrees Mustafa, 2015-2018, "Coupled nonlocal Schrödinger equations" (Co-supervisor: Georgi Grahovski).
- \* Rudy Kusdiantara, 2014-2017, "Swift-Hohenberg equations".
- Omar Karakchi, 2014-2017, "PT-symmetric discrete nonlinear Schrodinger equations".
- Tahani Al-Karkhi, 2013-2016, "Mathematical ecology" (Co-supervisor: Edward Codling).

Sendy Phang, 2012-2016, "Parity-Time symmetric waveguides" (Lead supervisor: Ana Vukovic, Co-supervisors: Trevor Benson & Philip Sewell).

Hui Jiang, 2010-2013, "Time periodic localised solutions in waveguide arrays" (Co-supervisors: Trevor Benson & Andrew Cliffe).

M. Irfan Qadir, 2009-2012, "Instability of dark solitons in perturbed nonlinear Schrödinger equations" (Co-supervisor: Paul Matthews).

Amir Ali, 2009-2012, "Josephson junctions with time-varying drives" (Co-supervisor: Jonathan Wattis).

Mahdhivan Syafwan, 2008-2012, "Solitary waves in discrete nonlinear Schrödinger equations" (Co-supervisor: Steve Cox).

Saeed Ahmad, 2008-2012, "Static and dynamic properties of fractional fluxons" (Co-supervisor: Jonathan Wattis).

Xiang Yi, 2008-2010, "Solitons on lattices" (Lead supervisor: J.A.D. Wattis).

— **MSc**

Itunu G. Osuntoki, Spring-Summer 2015-2016

Naomie Kiwutila, Spring-Summer 2014-2015.

Adam B.L. Falaise, Spring-Summer 2014-2015.

Jiazhen Wei, "Chaos in finance", Spring-Summer 2013-2014.

Matthew Dawson, "Discrete Schrödinger solitons", Fall 2012-2013.

John Pickton, "PT-symmetric waveguides", Fall 2012-2013.

Lamar T. Francois, "Fluxons in Josephson junctions", Fall 2011-2012.

Katherine G. Salisbury, "Discrete solitons in a nonlinear Schrödinger equation with a linear potential", Fall 2010-2011.

H.A. Kooiker, "Existence and stability analysis of [1|0]-fluxonic state in double-stack Josephson junctions", Fall 2004-2005 (co-supervisor: S.A. van Gils).

— **BSc**

\* Ryan Honsby, "Death of Language", Autumn-Summer 2017-2018.

Rizal Hanapi, "Mathematical modelling of the Arab Spring", Autumn-Summer 2016-2017

Daniel J. Wells, "Zombie attack", Autumn-Summer 2014-2015.

Tatjana Leilich, "Coupled pendula," Autumn-Summer 2014-2015.

Glenn Startin, "Heteroclinic connections of a perturbed sine-Gordon equation", Fall 2011.

— **UG Research interns**

Samuel Osborne, "Rogue Wave Frontrunner", October 2015-March 2016.

Andrew Nimmo, "Rogue Wave Frontrunner", October 2015-March 2016.

Wakas Hanif, "Quantum soliton dynamics in PT-symmetric potentials", June-August 2013.  
Kayleigh Erika Measures, "Excited cold atoms and their bifurcations", June-August 2012.

### **PhD EXAMINATION COMMITTEE**

Syed Ghufran, "Lanczos algorithms", University of Essex, December 2017.

Maharani, "Enhanced Lanczos algorithms for solving systems of linear equations with embedding interpolation and extrapolation", University of Essex, July 2015.

Nijamuddin Ali, "Studies on Nonlinear Dynamics of Some Food Chain Models", Visva-Bharati University, July 2015.

Rashid Shakeer, "A reaction diffusion model for inter-species competition and intra-species cooperation", University of Nottingham, July 2013.

Sahabuddin Sarwardi, "Mathematical modelling on some ecological and eco-epidemiological systems", Visva-Bharati University, June 2013.

### **VISITOR (min. 1 week)**

Toto Nusantara (Universitas Negeri Malang), 1 October – 31 December 2017.

Bobby Eka Gunara (Institut Teknologi Bandung), 9 September – 8 October 2017, 1 October – 31 October 2016.

Natanael Karjanto (Sungkyunkwan University), 19 June – 19 July 2017.

Meta Kallista (Institut Teknologi Bandung), 1 January – 15 March 2017.

Heni Widayani (Institut Teknologi Bandung), 1 January – 15 March 2017, 28 November 2014 - 27 January 2015.

Fiki Taufik Akbar (Institut Teknologi Bandung), 1 October – 31 October 2016, 1 – 28 October 2017.

Prama S. Putra (Institut Teknologi Bandung), 22 November – 12 December 2015.

Gusrian Putra (Andalas University), 29 September – 26 October 2015.

Mayasari Syahrul (Andalas University), 29 September – 26 October 2015.

Mahdhivan Syafwan (Andalas University), 29 September – 6 October 2015.

Nuning Nuraini (Institut Teknologi Bandung), 15-20 October 2014.

Makrina Agaoglou (Aristotle University of Thessaloniki), 15 April – 14 August 2014.

Robert Marangell (University of Sydney), 16 October 2013–24 October 2013.

Alhaji Akbar (University of Indonesia), 22 April–19 July 2013.

Vassilis Rothos (Aristotle University of Thessaloniki), 12–24 January 2012, 10–16 September 2012, 1–7 July 2013, 2–12 June 2014.

### **TEACHING**

— **University of Essex**

- MA202-5-AU-CO (Differential Equations) in Springs 2017 –
- MA303-7-AU-CO (Ordinary Differential Equations) in Autumns 2017
- MA225-5-SP-CO (Quantum Mechanics) in Spring 2017
- MA206-5-AU (Mathematical Methods) in Autumns 2014 – 2016
- MA209-5-SP (Introduction to Numerical Methods) [Level 2] in Springs 2014 – 2016
- MA203-5-SP (Analysis) [Level 2] in Springs 2014.

— **University of Nottingham**

- HG4MPD (Mathematical Methods in PDEs for Engineers) [Level 4] in Springs 2008 – 2012.
- G12DYN (Dynamical Systems) [Level 2] in Fall 2008.
- G12MDE (Modelling with Differential Equations) [Level 2] in Fall 2009.
- HG1M01 (Calculus for Engineers) [Level 1] in Fall 2010.
- HG1M01 (Calculus) [Level 1] in Falls 2011 – 2013.

— **University of Massachusetts**

- MATH 456 (Mathematical Modelling) [Level 4] in Spring 2007.
- MATH 132 (Calculus II) [Level 1] in Fall 2006, Spring 2007.
- MATH 131 (Calculus I) [Level 1] in Spring 2006, Fall 2007.

### **ADDITIONAL ACTIVITIES**

Sixth Form Mathematics Enrichment coaching, University of Essex, 6 October 2015.

Enrichment Day, Colchester Academy, 2 December 2014.

Science and Health Dean's List public talk, University of Essex, 12 November 2014.

Participated in 'Modelling in Energy' Sandpit, Bridging the Gaps – Univ. of Nottingham, 19-20 March 2008.

Participated in "Mathematical Sciences in the 'Energy' and 'The Digital Economy' Themes" Workshop, Woburn House (London), 25 March 2009.

### **REFERENCES**

- **Prof. Dr. Panayotis G. Kevrekidis**  
Department of Mathematics and Statistics  
Lederle Graduate Research Tower  
University of Massachusetts  
Amherst, MA 01003-9305  
Phone: +1 413 577 1977, Fax: +1 413 545 1801  
Email: kevrekid@math.umass.edu

- **Prof. Dr. Jonathan Wattis**  
Professor of Applied Mathematics,  
School of Mathematical Sciences, University of Nottingham  
Phone: +44 115 9513857, Fax: +44 115 9513837  
Email: jonathan.wattis@nottingham.ac.uk
- **Prof. Dr. Mike Adams**  
School of Computer Engineering and Electronics Engineering  
University of Essex  
Wivenhoe Park, Colchester, CO4 3SQ, United Kingdom  
Email: adamm@essex.ac.uk
- **Prof. Dr. Alan Champneys**  
Department of Engineering Mathematics  
University of Bristol  
Merchant Venturers' Building  
Bristol, BS8 1UB, UK  
Email: a.r.champneys@bristol.ac.uk
- **Prof. Dr. Berthold Laussen**  
Head of Department  
School of Mathematical Sciences  
University of Essex  
Wivenhoe Park, Colchester, CO4 3SQ, United Kingdom  
Email: blaussen@essex.ac.uk

#### **NON-SCIENTIFIC BOOKS (in Indonesian)**

Tuhan Pasti Ahli Matematika (Bentang Pustaka, Yogyakarta, 2015)

— **Anthology of short stories with a number of authors**

Dari Negeri Asing (Syaamil, Bandung, 2001)

Graffiti Imaji (Yayasan Multimedia Sastra, Jakarta, 2002)

Merah di Jenin: Kado Cinta untuk Palestina (FBA Press, Jakarta, 2002)

Jika Cinta (Senayan Abadi, Jakarta, 2004)

— **Anthology of poetries with a number of authors**

Graffiti Gratitude (Yayasan Multimedia Sastra/Angkasa, Bandung, 2001)

Les Cyberletters: antologi puisi cyberpunk (Yayasan Multimedia Sastra, Jakarta, 2005)

Dian Sastro for President: end of trilogy (On/Off Book & Insist Press, Yogyakarta, 2005)

— **Anthology of literature essays with a number of authors**

Cyber Graffiti, A.S. Sambodja, C.N. Suraja, H. Latief, dan S. Situmorang (Eds.), (Angkasa,

Bandung, 2001)

Cyber Graffiti: Polemik Sastra Cyberpunk, S. Situmorang (Ed.), (Jendela, Yogyakarta, 2004)

— **Book preface**

Ayat-Ayat Cinta, Habiburrahman El Shirazy (auth.), (Basmala & Republika, Jakarta, 2004).