Dr. Ioanna Chitzanidi

Curriculum Vitae

Education

2002–2007 **PhD, Physics**, *Technische Universität Berlin, Germany*.
Thesis title: Control of noise-induced spatio-temporal dynamics in superlattices
Supervisor: Prof. Dr. Eckehard Schöll, PhD
Degree: Dr. rer. nat.

1996–2002 **BSc, Physics**, *University of Athens*.
Thesis title: Ring dark solitons
Specialization: Electronics and Telecommunications
Supervisor: Prof. Dimitrios Frantzeskakis
Degree: Ptychion

Professional Experience

08/2018–Present **Principal Investigator**.
Physics Department, University of Crete.
Research Project entitled "SQUID metamaterials: Chimera states and spatio-temporal dynamics" (**SQUIRREL**) funded by the Hellenic Foundation for Research and Innovation.

01/2015–07/2018 **Senior Researcher**.
"Center for Quantum Complexity and Nanotechnology (QCN)", Physics Department, University of Crete. Main research field: **Chimera states in coupled Superconducting Quantum Interference Devices (SQUIDs).**

07/2014–12/2014 **Postdoc Researcher**.
KRIPIS Project "Advanced Materials for Energy", National Center for Scientific Research "Demokritos". Main research field: **Synchronization phenomena in population dynamics systems.**

07/2012–06/2014 **Postdoc Researcher**.
Thales Project "Mathematical Modeling of Complex Systems with Applications in Biomedicine, Physics and the Technology of Materials". Main research field: **Synchronization and collective behaviour in complex networks of biological neurons.**

10/2012–02/2014 **Adjunct Professor**.
School of Pedagogical and Technological Education (ASPETE), Electronics Department

10/2010–02/2014 **Adjunct Professor**.
Technological Educational Institute of Kalamata, Branch of Sparta, Department of Information Technology and Telecommunications

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01/2009– **Postdoc Researcher**.
06/2010 Optical Communications Laboratory, Informatics and Telecommunications Department, University of Athens (Group of Prof. Dimitris Syvridis).
Main research field: **Nonlinear dynamics in lasers and chaotic optical communication.**

10/2002– **Research Assistant**.
12/2007 Technische Universität Berlin (Group of Prof. Dr. Eckehard Schöll).
Project title: Sonderforschungsbereich 555 (Complex Nonlinear Processes)
Main research field: **Nonlinear dynamics and control in semiconductor superlattices.**

Editorial/Translation experience

- Editorial Board Member for **Scientific Reports**: Mathematical Physics, Thermodynamics and Nonlinear Dynamics Category (since August 2018).
- Translation from English to Greek of "Complex Variables" by Mark J. Ablowitz and Athanasios S. Fokas, for **Crete University Press** (2013).
- Editing of "Introduction to Electrodynamics" by David J. Griffiths, for **Crete University Press** (2012).

Research Grants

2018-2021 **Postdoc Research Grant, Hellenic Foundation for Research and Innovation (HFRI)**.
Project title: SQUID metamaterials: chimera states and spatio-temporal dynamics
Host institute: Department of Physics, University of Crete, Greece.
Principal Investigator: J. Hizanidis

2017-2018 **Program to increase the Competitiveness of NUST "MISiS" among the World**.
Project title: SQUID metamaterials: chimera states and spatio-temporal dynamics (Grant No 3-2017 -057)
Collaborating institutes: Department of Theoretical Physics and Quantum Technologies, MISIS. Moscow, Russia & Department of Physics, University of Crete, Greece.
Leading Scientist: J. Hizanidis

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2014 **Scientific Projects 2014, John S. Latsis Public Benefit Foundation**.
(Success Rate: 2.3%)
Project title : Collective behavior in networks of biological neurons: mathematical modelling and software development
Collaborating institutes: NCSR "Demokritos", University of Barcelona, University of Aberdeen, University of Patras, Universiteit van Amsterdam.
Coordinator: J. Hizanidis

Exchange Programs

2013–2015 **IKYDA**.
Supported by the Greek State Scholarship Foundation (IKY) and the German Academic Exchange Service (DAAD).
Project title: Chimera states in dynamical networks of nonlinear systems
Coordinators: J. Hizanidis & A. Provata (Greece), P. Hövel & E. Schöll (Germany)

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Scholarships

06/2008–12/2008 **STIBET 2008**.
DAAD "Research Assistantship" Program

Teaching

Abstract neuron models **Summer semester 2017**.
Lecture at the Interdisciplinary Graduate Programme "BRAIN and MIND sciences"
University of Crete.

Physics I **Winter semesters 2013/2014 & 2012/2013**.
Technological Educational Institute of Sparta
Department of Information Technology and Telecommunications.

Control Systems I **Winter semester 2013/2014 & Year 2012/2013**.
School of Pedagogical and Technological Education (ASPETE)
Electronics Department.

Mathematical Analysis II **Summer semester 2012**.
Technological Educational Institute of Sparta
Department of Information Technology and Telecommunications.

Linear Algebra **Winter semester 2011/2012**.
Technological Educational Institute of Sparta
Department of Information Technology and Telecommunications.

Probability Theory and Statistics **Winter semester 2011/2012**.
Technological Educational Institute of Sparta
Department of Information Technology and Telecommunications.

Digital Circuits **Summer semester 2011**.
Technological Educational Institute of Sparta
Department of Information Technology and Telecommunications.

Analog Electronics **Winter semester 2010/2011**.
Technological Educational Institute of Sparta
Department of Information Technology and Telecommunications.

Theses Supervision

BSc thesis 2018 "Chimera states in modular networks: The C. elegans paradigm", Maria-Myrto Villia, University of Crete, Greece

PhD thesis 2018 "Collective behavior and chimera states in networks of nonlinear oscillators and coupled lasers", Joniald Shena, University of Crete, Greece

PhD thesis 2015 "Synchronization phenomena in lattices of coupled oscillators", Evangelia Panagakou, University of Athens, Greece

Master thesis 2015 "Study and analysis of MRI data for modelling of neural networks in the brain", Nefeli Tsigkri-De Smedt, University of Athens, Greece

Bachelor thesis 2014 "Nonlinear Dynamics and Chaos: Simulation of the Lorenz attractor with Easy Java Simulation open software", Anastassia Trompouki, Technological Educational Institute of Kalamata, Greece

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Bachelor thesis 2012	"Study of linear Automatic Control Systems using MATLAB (Simulink), Panagiotis Aleiferis, Technological Educational Institute of Kalamata, Greece
Master thesis 2007	"Multiple time-delayed feedback control of the coherence resonance in a model showing a global bifurcation", Roland Aust, Technische Universität Berlin, Germany

Computer skills

Programming Languages	C++, C, Perl, HTML, typo3, bash
Typeset	LaTeX
Software Packages	Mathematica, Matlab
Office Packages	OpenOffice, Microsoft Office
Operating Systems	Linux, Windows

Languages

Greek	**Mother tongue**	
English	**Fluent**	*excellent written and oral skills*
German	**Fluent**	*excellent written and oral skills*

Research Interests

- Nonlinear Dynamics and Chaos
- Collective Behavior, Mathematics of Networks, Complexity
- Brain Dynamics and Modeling, Synchronization Phenomena, Chimera States
- Nonlinear Analysis of Human Brain Magnetic Resonance Imaging (MRI) data
- Chaos Control, Time-Delayed Feedback & Delay Differential Equations
- Bifurcation Analysis
- Stochastic Processes
- Nonlinear Dynamics in Semiconductor Lasers
- Nonlinear Electronic Transport in Nanostructures

Talks & Posters in International Conferences

Talk	"Flux bias-controlled spatio-temporal dynamics in SQUID lattices", *Nonlinear Localization in Lattices – NLL 2018*, June 2018, Spetses, Greece.
Talk	"Robust chimera states in superconducting metamaterials", *PhysCon*, July 2017, Florence, Italy.
Talk	P. Hövel, A. Schmidt, T. Kasimatis, J. Hizanidis & A. Provata: "Chimera patterns as complex systems: Examples from two-dimensional networks of coupled neurons", *Crossroads in Complex Systems*, IFISC, June 2017, Mallorca, Spain.

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Talk P. Hövel, J. Hizanidis, T. Isele & A. Provata: "Controlling chimera states by a block of excitable units", *Patterns of Dynamics 2016*, July 2016, Berlin, Germany.

Talk "Chimeras in locally coupled SQUIDs: Lions, goats and snakes ", *Quantum metamaterials and Quantum Technology*, June 2016, Spetses, Greece.

Invited Talk "Chimeras in SQUIDs: lions, goats and snakes", *XXXVI Dynamics Days Europe*, June 2016, Corfu, Greece.

Talk E. Panagakou, J. Hizanidis, P. Hövel, I. Omelchenko, E. Schöll & A. Provata: "Chimera states in population dynamics: networks with fragmented and hierarchical connectivities", *Conference in Complex Systems (CCS'15)*, September 2015, Arizona, USA.

Talk "Chimera-like dynamics and metastability in the C.elegans brain network", *PhysCon*, August 2015, Istanbul, Turkey.

Invited Talk "Chimera-like states in modular neural networks", *MACOMSYS Thales Workshop*, July 2015, Patras, Greece.

Talk P. Hövel, A. Vüllings, I. Omelchenko & J. Hizanidis: "Clustered Chimera States in Systems of Type-I Excitability", *WIAS Workshop: Collective dynamics in coupled oscillator systems*, November 2014, Berlin, Germany.

Talk P. Hövel, A. Vüllings, I. Omelchenko & J. Hizanidis: "Chimera states in neuronal systems", *ECCS'14 European Conference on Complex Systems*, September 2014, Lucca, Italy.

Poster I. Omelchenko, A. Provata, J. Hizanidis, E. Schöll & P. Hövel:"Robustness of chimera states", *International Conference on Control of Self-Organizing Nonlinear Systems*, August 2014, Warnemünde, Germany.

Invited Talk "Chimera states in networks of nonlocally coupled neural oscillators", *Greek-Turkish Conference on Statistical Mechanics and Dynamical Systems*, July 2014, Athens, Greece.

Invited Talk "Chimera states in networks of nonlocally coupled neural oscillators", *10th AIMS Conference on Dynamical Systems, Differential Equations, and Applications*, July 2014, Madrid, Spain.

Talk "Clustered Chimera States in Systems of Type-I Excitability", *DPG Spring meeting 2014*, Dresden, Germany.

Invited Talk "Chimera states in networks of biological neurons and coupled damped pendulums", *MACOMSYS Thales Workshop*, July 2013, Heraklion, Greece.

Poster "Chimera states in networks of excitable elements", *XXXIII Dynamics Days Europe*, June 2013, Madrid, Spain.

Poster A. Bezerianos, V. G. Kanas, J. Hizanidis & T. Bountis:"Advanced techniques to model bi-directional communication of neural ensembles: theoretical considerations and obstacles, *AREADNE Research in Encoding and Decoding of Neural Ensembles*, June 2012, Santorini, Greece.

Poster "Nonlinear analysis of Diffusion Tensor Imaging (DTI) data of human brain neuron tracts", *DPG Spring meeting 2012*, Berlin, Germany.

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Talk "Control of coherence resonance in semiconductor superlattices", *Chaotic Modeling and Simulation International Conference*, June 2008, Chania, Greece.

Talk "Effect of noise and delay near a global bifurcation in superlattices", *DPG Spring meeting 2008*, Berlin, Germany.

Talk "Delay-induced multistability in a generic model for excitable dynamics", *ASME International Design Engineering Technical Conferences (IDETC)*, September 2007, Las Vegas, USA.

Poster "Delay- and noise-induced dynamics near a global bifurcation", *Dynamics Days Europe*, September 2006, Heraklion, Crete, Greece.

Poster "Noise induced front motion: signature of a global bifurcation", *Constructive Role of Noise in Complex Systems*, July 2006, MPIPKS Dresden, Germany.

Talk "Noise induced fronts in superlattices", *ICFN 2005, 18th International Conference on Noise and Fluctuations*, September 2005, Salamanca, Spain.

Talk "Noise induced moving fronts in semiconductor superlattices", *Dynamic Days Europe 2005*, July 2005, Berlin, Germany.

Talk "Control of noise induced oscillations in semiconductor superlattices", *DPG Spring meeting 2005*, Berlin, Germany.

Talk "Control of noise induced oscillations in semiconductor superlattices", *Dresdner Herbstseminar des Arbeitskreises Nichtlineare Physik*, November 2004, Dresden, Germany.

Poster "Deterministic and stochastic dynamics in semiconductor superlattices", *International Conference and Summer School on Complexity in Science and Society*, July 2004, Patras and Ancient Olympia, Greece.

Poster "Noise induced pattern formation in semiconductor nanostructures", *Workshop on Stochastic Systems with Delay and Memory*, February 2004, Martin-Luther-Universität, Leucorea, Wittenberg, Germany.

Poster E. Schöll & J. Hizanidis:"Control of noise-induced spatiotemporal patterns in superlattices", *15th International Conference on Nonequilibrium Carrier Dynamics in Semiconductors*, July 2007, Tokyo, Japan.

Poster E. Schöll & J. Hizanidis:"Noise-induced current oscillations in superlattices: from stationary to moving domains", *International Conference on the Physics of Semiconductors (ICPS)*, July 2006, Vienna, Austria.

Publications

International Journals

J28. G. Neofotistos, M. Mattheakis, G. D. Barmparis, J. Hizanidis, G. P. Tsironis, and E. Kaxirasf: *"Machine learning with observers predicts complex spatiotemporal behavior"*, Submitted to PNAS (2018).

J27. J. Shena, J. Hizanidis, N. E. Kouvaris, and G. P. Tsironis: *"Class B lasers in star networks with optoelectronic feedback"*, Accepted by Phys. Rev. A (2018).

J26. J. Hizanidis, N. Lazarides, and G. P. Tsironis: *"Flux bias-controlled chaos and extreme multistability in SQUID oscillators"*, Chaos **28**, 032215 (2018).

J25. T Kasimatis, J. Hizanidis, and A Provata: *"Three-dimensional chimera patterns in networks of spiking neuron oscillators"*, Phys. Rev. E **97**, 052213 (2018).

J24. J. Shena, J. Hizanidis, P. Hövel, and G. P. Tsironis: *"Multiclustered chimeras in large semiconductor laser arrays with nonlocal interactions"*, Phys. Rev. E **96**, 032215 (2017).

J23. N. Tsigkri-De Smedt, Johanne Hizanidis, E. Schöll, P. Hövel, and A. Provata: *"Chimeras in Leaky Integrate-and-Fire Neural Networks: Effects of Reflecting Connectivities "*, European Physical Journal B **90** 139 (2017).

J22. A. Schmidt, T. Kasimatis, J. Hizanidis, P. Hövel and A. Provata: *"Chimera patterns in two-dimensional networks of coupled neurons"*, Phys. Rev. E **95**, 032224 (2017)

J21. J. Shena, J. Hizanidis, V. Kovanis, and G. P. Tsironis: *"Turbulent chimeras in large semiconductor laser arrays"*, Scientific Reports **7**, 42116 (2017).

J20. N. E. Kouvaris, J. Hizanidis, A. Díaz-Guilera, and R. J. Requejo: *"Chimeras on a public goods game with destructive agents"*, Chaos **26**, 123108 (2016).

J19. J. Hizanidis, N. Lazarides, and G. Tsironis: *"Robust chimera states in SQUID metamaterials with local interactions"*, Phys. Rev. E **94**, 032219 (2016).

J18. N. Tsigkri-De Smedt, J. Hizanidis, P. Hövel, and A. Provata: *"Multi-Chimera States and Transitions in the Leaky Integrate-and-Fire Model with Excitatory Coupling and Hierarchical Connectivity"*, Eur. Phys. J. Special Topics **225** 1149 (2016).

J17. J. Hizanidis, N. Lazarides, G. Neofotistos, and G. Tsironis: *"Chimera states and synchronization in magnetically driven SQUID metamaterials"*, Eur. Phys. J. Special Topics **225** 1231 (2016).

J16. T. Isele, J. Hizanidis, A. Provata, and P. Hövel : *"Controlling chimera states: The influence of excitable units"*, Phys. Rev. E **93** 022217 (2016).

J15. J. Hizanidis, N. E. Kouvaris, G. Zamora-López, A. Díaz-Guilera, and Chris G. Antonopoulos: *"Chimera-like states in modular neural networks"*, Scientific Reports **6**, 19845 (2016).

J14. J. Hizanidis, N. E. Kouvaris, and Chris G. Antonopoulos: *"Metastable and chimera-like states in the C.elegans brain network"*, Journal Cybernetics and Physics **4**, 17-20 (2015).

J13. J. Hizanidis, E. Panagakou, I. Omelchenko, E. Schöll, P. Hövel, and A. Provata: *"Chimera states in population dynamics: networks with fragmented and hierarchical connectivities"*, Phys. Rev. E **92**, 012915 (2015).

J12. I. Omelchenko, A. Provata, J. Hizanidis, E. Schöll , and P. Hövel: *"Robustness of chimera states for coupled FitzHugh-Nagumo oscillators"*, Phys. Rev. E **91**, 022917 (2015).

J11. A. Vüllings, J. Hizanidis, I. Omelchenko, and P. Hövel: *"Clustered chimera states in Excitable Elements of Type I"*, New J. Phys. **16**, 123039 (2014).

J10. T. Bountis, V. G. Kanas, J. Hizanidis, and A. Bezerianos: *"Chimera states in a Two-Population Network of Coupled Pendulum-Like Elements"*, Eur. Phys. J. Special Topics **223**, 721 (2014).

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J9. J. Hizanidis, V. G. Kanas, A. Bezerianos and T. Bountis: *"Chimera states in networks of Hindmarsh-Rose oscillators"*, Int. J. Bif. Chaos **24**, 1450030 (2014).

J8. P. Katsaloulis, J. Hizanidis, D. A. Verganelakis and A. Provata: *"Complexity measures and noise effects on Diffusion Magnetic Resonance Imaging of the neuron axons network in human brains"*, Fluctuation and Noise Letters **11**, 1250032 (2012).

J7. J. Hizanidis, S. Deligiannids, A. Bogris and D. Syvridis: *"Enhancement of chaos encryption potential by combining all-optical and electro-optical chaos generators"*, IEEE J. Quantum Electron. **46**, 1642 (2010) .

J6. R. Aust, P. Hövel, J. Hizanidis and E. Schöll: *"Delay control of coherence resonance in type-I excitable dynamics"*, Eur. Phys. J. Special Topics **187**, 77 (2010).

J5. J. Hizanidis and E. Schöll: *"Control of coherence resonance in superlattices"*, Phys. Rev. E. **78**, 066205 (2008).

J4. J. Hizanidis, R. Aust and E. Schöll: *"Delay-induced multistability near a global bifurcation"*, Int. J. Bif. Chaos **18**, 1759 (2008).

J3. J. Hizanidis and E. Schöll: *"Control of noise-induced spatiotemporal patterns in superlattices"*, phys. status solidi (c) **5**, 207 (2008).

J2. J. Hizanidis, A. G. Balanov, A. Amann, and E. Schöll: *"Noise-induced front motion: signature of a global bifurcation"*, Phys. Rev. Lett. **96**, 244104 (2006).

J1. J. Hizanidis, A. G. Balanov, A. Amann, and E. Schöll: *"Noise-induced oscillations and their control in semiconductor superlattices"*, Int. J. Bif. Chaos **16**, 1701 (2006).

Conference Proceedings

C6. N. Tsigkri-De Smedt, J. Hizanidis, P. Hövel, and A. Provata: *"Multi-chimera states in the Leaky Integrate-and-Fire model"*, 4th International Young Scientist Conference on Computational Science, Procedia Computer Science **66**, 13 (2015).

C5. P. Hövel, A. Vüllings, I. Omelchenko, and J. Hizanidis: *"Clustered chimera states in Systems of Type-I Excitability"*, in Proc. European Conference on Complex Systems (ECCS) (2014).

C4. J. Hizanidis, V. G. Kanas, A Bezerianos, T Bountis: *"Existence and control of chimera states in networks of nonlocally coupled models of neuron oscillators"*, in Control Automation Robotics & Vision (ICARCV) (2014).

C3. J. Hizanidis, R. Aust and E. Schöll: *"Delay-induced multistability in a generic model for excitable dynamics"*, in Proc. ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (2007).

C2. E. Schöll and J. Hizanidis: *"Noise-induced current oscillations in superlattices: from stationary to moving domains"*, in Proc. 28th Int. Conference on Physics of Semiconductors (ICPS-28), Vienna 2006 **893**, 543 (2007).

C1. J. Hizanidis, A. G. Balanov, A. Amann, and E. Schöll: *"Control of noise-induced oscillations in superlattices by delayed feedback"*. AIP Conf. Proc. **780**, 41 (2005).

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Book Chapters

B2. J. Hizanidis, P. Katsaloulis, D. A. Verganelakis and A. Provata: *"Describing the Neuron Axons Network of the Human Brain by Continuous Flow Models"*, Special Volume honoring the memory of Professor John S. Nicolis, "Chaos, Information Processing and Paradoxical Games", World Scientific Publishing Company, edited by G. Nicolis and V. Basios (2014).

B1. E. Schöll, J. Hizanidis, P. Hövel, and G. Stegemann: *"Pattern formation in semiconductors under the influence of time-delayed feedback control and noise"*, in Analysis and control of complex nonlinear processes in physics, chemistry and biology, World Scientific (2007).

Citations in Scientific Publications

total: 576 (according to Scopus)

h-index: 14 (according to Scopus)

Reviewer for the following journals

- Frontiers in Applied Mathematics and Statistics
- Chaos, Solitons and Fractals
- IEEE Journal of Quantum Electronics
- Nonlinear Analysis Series B
- European Physical Journal
- Physics Letters A
- European Journal of Neuroscience
- Complexity

Organization of Workshops & Conferences

- Self-organized patterns on complex networks (SOP), Satellite Workshop of the 8th International Scientific Conference on Physics and Control (PhysCon 2017), July 2017, Florence, Italy.
- Self-organized patterns on complex networks (SOP), Satellite Workshop of the 2016 Conference on Complex Systems (CCS'16), September 2016, Amsterdam, Netherlands.
- 5th Ph.D. Summer School & Workshop on Mathematical Modeling of Complex Systems, July 2015, Patras, Greece.
- 4th Ph.D. Summer School & Workshop on Mathematical Modeling of Complex Systems, July 2014, Athens, Greece.
- Chaos Applications in Telecommunications and Sensors, June 2009, Chania, Greece.
- Dynamic Days Europe, July 2005, Berlin, Germany.

International Collaborations

- Prof. S. Anlage, University of Maryland, USA
- Dr. C. G. Antonopoulos, University of Essex, UK
- Prof. A. Bezerianos, University of Patras, Greece & University of Singapore
- Prof. T. Bountis, University of Patras, Greece
- Dr. P. Hövel, Technische Universität Berlin, Germany
- Dr. N. E. Kouvaris, University of Barcelona, Spain
- Prof. V. Kovanis, Nazarbayev University, Kazakhstan
- Dr. N. Lazarides, University of Crete, Greece
- Dr. I. Omelchenko, Technische Universität Berlin, Germany
- Dr. A. Provata, National Center for Scientific Research "Demokritos", Greece
- Prof. Dr. E. Schöll, Technische Universität Berlin, Germany
- Prof. G. Tsironis, University of Crete, Greece
- Dr. G. Zamora-López, Universitat Pompeu Fabra, Spain

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