

# RAMI KATZ

## CURRICULUM VITAE – OCTOBER 7, 2024

The transliteration of my name appearing in official documents is **Ram Kats**. However, in my scientific and daily activities, as well as in my publications, my name appears as **Rami Katz**.

### Postdoctoral Researcher

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**Homepage:** www.ramikatz.com

**Languages:** Hebrew (native), English (fluent), Russian (fluent), Italian (intermediate)

### EDUCATION AND ACADEMIC EMPLOYMENT

- **2023 - Today:** Postdoctoral researcher, Dept. of Engineering, University of Trento, Italy.  
Mentor: Prof. Giulia Giordano.
- **2022 - 2023:** Postdoctoral researcher, Dept. of Electrical Engineering, Tel-Aviv University, Israel.  
Mentor: Prof. Michael Margaliot.
- **2018 - 2022:** Ph.D. in Electrical Engineering, Dept. of Electrical Engineering, Tel-Aviv University, Israel.  
Academic Supervisor: Prof. Emilia Fridman.  
Doctoral Dissertation Title: New Methods for Output-Feedback Control of Parabolic Partial Differential Equations.
- **2015 - 2017:** M.Sc. (*Summa cum Laude*) in Applied Mathematics, Dept. of Mathematics, Tel-Aviv University, Israel.  
Academic Supervisor: Prof. Adi Ditkowski.  
M.Sc. Dissertation Title: Spectral Approximations With Orthogonal Polynomials For Non-Standard Weight Functions and Non-Standard Domains.
- **2011 - 2014:** B.Sc. (*Summa cum Laude*) in Mathematics – Economics, Tel-Aviv University.

### HONOURS AND AWARDS

- **2023:** The *2022-2023 Juan de la Cierva* international Spanish fellowship (Assistant Professor position level), one of 17 throughout Spain. Declined for another position.  
[https://www.ramikatz.com/\\_files/ugd/fbe1a9\\_25ca12dbe4ce4a06b87f72d51fa1c764.pdf](https://www.ramikatz.com/_files/ugd/fbe1a9_25ca12dbe4ce4a06b87f72d51fa1c764.pdf)
- **2021:** Best student paper award finalist – European Control Conference 2021.  
[https://www.ramikatz.com/\\_files/ugd/fbe1a9\\_dca6e9b514ec4f1ab292ba5a95c12579.pdf](https://www.ramikatz.com/_files/ugd/fbe1a9_dca6e9b514ec4f1ab292ba5a95c12579.pdf)
- **2020:** National fellowship for excellence in Ph.D. studies. Funded by the KLA corporation ([www.kla.com](http://www.kla.com)), 2020-2021.
- **2020:** *Automatica*'s editor's choice award for the paper "Entrainment to subharmonic trajectories in oscillatory discrete-time systems", June 2020.  
<https://www.sciencedirect.com/journal/automatica/about/editors-choice>  
[https://www.ramikatz.com/\\_files/ugd/fbe1a9\\_5f1c13caabc646e5a5fc6113e0298e20.pdf](https://www.ramikatz.com/_files/ugd/fbe1a9_5f1c13caabc646e5a5fc6113e0298e20.pdf)
- **2020:** Award for outstanding lecturers. Afeka college of engineering ([www.afeka.ac.il](http://www.afeka.ac.il)).
- **2018:** Excellence in Studies Prize. Funded by the Yitzhak and Chaya Weinstein Research Institute for Signal Processing, Tel Aviv University (Institute director: Prof. Arie Yeredor, [arief@tauex.tau.ac.il](mailto:arief@tauex.tau.ac.il)), 2018-2019.
- **2016:** Tel-Aviv University Excellence in Studies Prize. Awarded during M.Sc. studies.
- **2014:** Tel-Aviv University Excellence in Studies Prize. Awarded during B.Sc. studies.
- **2014:** Selected to the "Gifted B.Sc. students' program", School of Mathematics, Tel-Aviv University. The program allowed 6 students to proceed on a direct track from B.Sc. to M.Sc. studies, while participating in advanced research.

### INVITED TALKS

- **06/2024:** "Constrained system identification of reaction-diffusion equations: a bridge between control and inverse problems", Tel Aviv University Dept. of Applied Mathematics Seminar, Tel Aviv, Israel.

- **05/2024**: “ISS and stability of delayed rapidly varying systems – novel constructive approaches”, University of Bozen Dept. of Engineering Seminar, Bozen, Italy.
- **12/2023**: “On the gain of entrainment in a class of contractive bilinear control systems”, Drakhlin’s online seminar on functional differential equations. International audience.
- **07/2023**: “On the gain of entrainment in a class of contractive bilinear control systems”, University of Trento Dept. of Engineering Seminar, Trento, Italy.
- **05/2023**: “On the accuracy of Prony’s method for stable super-resolution”, University of Bayreuth systems and control seminar, Bayreuth, Germany.
- **05/2023**: “On the gain of entrainment in a class of contractive bilinear control systems”, University of Passau systems and control seminar, Passau, Germany.
- **03/2023**: “On the accuracy of Prony’s method for stable super-resolution”, Ben-Gurion University Electrical Engineering Seminar, Beer-Sheva, Israel.
- **06/2022**: “Multi-agent deployment via sampled-data control of Distributed Parameter Systems”, Ben-Gurion University Electrical Engineering Seminar, Beer-Sheva, Israel.
- **04/2022**: “Constructive delayed control of distributed parameter systems”, Drakhlin’s online seminar on functional differential equations. International audience.
- **12/2021**: “Sampled-data control of parabolic PDEs”, Dept. of Applied Mathematics seminar at Tel Aviv University, Israel.
- **12/2021**: “Finite-dimensional observer-based ISS and L2-gain control of parabolic PDEs”, ISS and applications online seminar. International audience.
- **04/2021**: “Finite-dimensional observer-based control of parabolic PDEs”, Distributed parameter systems online seminar. International audience.

#### ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS - EDITORIAL BOARD MEMBERSHIP

- **2024**: Member of the European Control Association Conference Editorial Board (EUCA-CEB), service in the International Program Committee of the *European Control Conference* as an Associate Editor.

#### ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS - SESSION ORGANISATION

- **2024**: Organiser of the invited session “Biological systems: Modelling, analysis and algorithms”, *63rd IEEE Conference on Decision and Control*, Milan, Italy (with A. Borri, G. Giordano, P. Palumbo, A. Singh).
- **2024**: Organiser of the invited session “Optimal and model-based control of biological systems”, *63rd IEEE Conference on Decision and Control*, Milan, Italy (with A. Borri, G. Giordano, P. Palumbo, A. Singh).

#### ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS - CHAIRING DUTIES

- **09/2022**: Session chair, *25th International Symposium on Mathematical Theory of Networks and Systems (MTNS 2022)*, Bayreuth, Germany.
- **06/2021**: Session chair, *2021 European Control Conference (ECC21)*, Rotterdam, The Netherlands.

#### REVIEWING ACTIVITY

- **2019 - Today**: Active reviewer of leading journals in mathematical systems and control theory, including: *Mathematics of Control, Signals and Systems*; *IEEE Transactions on Automatic Control*; *Automatica*; *Systems & Control Letters*; *European Journal of Control*; *IEEE Control Systems Letters*; *International Journal of Robust and Nonlinear Control*.

#### TEACHING

- **2024**: Lecturer, Ph.D. course “Modern methods of finite-time control and observation”, Dept. of Industrial Engineering, University of Trento, Trento.
- **2022 - 2023**: Lecturer, Dept. of Engineering, Ben-Gurion University of the Negev, Beer Sheva.
- **2016 - 2022**: TA and lecturer, Afeka College of Engineering, Tel-Aviv.
- **2012 - 2019**: TA and lecturer, Dept. of Mathematics, Tel-Aviv University, Tel-Aviv.

I have over 10 years of teaching experience (more than 100 hours a year) of undergraduate and graduate courses in mathematics and engineering. I have been a member of the junior faculty at Tel-Aviv University since my second year of B.Sc. studies. Between 2011 and 2013, I was employed as a teaching assistant. In the years 2014-2018, I filled the role of both a teaching assistant and a lecturer in the School of Mathematics and the School of Electrical Engineering at Tel-Aviv University, where I taught mathematics courses, ranging from introductory courses, such as Set Theory, Mathematical Analysis and Linear Algebra, to advanced courses, such as Complex Analysis, Harmonic Analysis, PDE Theory, Measure theory and Topology. In addition, in 2016-2020, I was a teaching assistant and lecturer at the Afeka College of Engineering. During my Ph.D. studies at Tel-Aviv University (2018-2022), my teaching expertise expanded to include courses in dynamical systems and control, including Optimal Control Theory, Functional differential equations, Nonlinear dynamical systems, Monotone systems theory and Functional analysis. In 2023, I was employed at the School of Electrical Engineering in Ben-Gurion University of the Negev, where I was a lecturer of Introduction to Control Theory (Bachelor level course) and Nonlinear Dynamical Systems (M.Sc./Ph.D. level course). In 2024, I gave an advanced Ph.D. course on differential inclusions at the Department of Engineering, The University of Trento, Italy.

I am the recipient of the Afeka College of Engineering Award for Outstanding Lecturers for the year 2019-2020.

My teaching experience and interests are focused on mathematical analysis on a broader scale, and on partial differential equations, ordinary differential equations and dynamical systems, more specifically. The following list includes courses which I have previous experience in teaching, as a lecturer or a teaching assistant.

- Introduction to Set Theory.
- Combinatorics and Graph Theory.
- Mathematical Analysis.
- Linear Algebra.
- Ordinary Differential Equations.
- Partial Differential Equations.
- Complex Analysis.
- Harmonic Analysis.
- Measure Theory.
- Functional Analysis.
- Topology.
- Banach Space Theory.
- Algebra.
- Probability Theory.
- Calculus of Variations and Optimal Control.
- Monotone and Contractive Systems with Applications to Biology.
- Optimal Control Theory.
- Functional Differential Equations.
- Numerical Analysis.

### MENTORING AND SUPERVISION

- Co-supervision of 2 M.Sc. students:  
Idan Basre (two co-authored conference papers - [CIP6] and [CIP11])  
Elad Attias (one co-authored journal paper - [PJ14]), M.Sc. in Electrical Engineering, Tel Aviv University.
- Co-supervision of 3 Ph.D. students:  
Pengfei Wang (one co-authored journal paper and two co-authored conference papers - [PJ15], [CIP8] and [CIP10]), visiting Ph.D. student, School of Electrical Engineering, Tel Aviv University  
Nuha Diab (two co-authored journal papers - [PJ17] and [PJ20]), School of Mathematics, Tel Aviv University  
Uros Sutulovic (one co-authored paper - [SC1]), Department of Industrial Engineering, University of Trento.

### INTERNATIONAL COLLABORATIONS

I have a wide network of collaborations, spanning the following main topics of interest:

- (1) Control and estimation of abstract functional differential equations (PDEs, Time-delay systems, etc.),
- (2) Dynamical systems on multiple time-scales (perturbation theory) and the method of averaging,
- (3) Applied harmonic analysis with applications to inverse problems and super-resolution,
- (4) Nonlinear dynamical systems with emphasis on monotone and contractive systems and their applications to mathematical biology.

Within research directions (1) and (2), I have a long-term collaboration with Emilia Fridman (Electrical Engineering, Tel-Aviv University) and a recently initiated collaboration with Frederic Mazenc (L2S, Paris-Saclay). Within research direction (3), I have an ongoing collaboration with Dmitry Batenkov (Mathematics, Tel-Aviv University), whereas for research direction (4), in addition to my current position within the framework of the ERC project INSPIRE (*Integrated Structural and Probabilistic Approaches for Biological and Epidemiological Systems*) led by Giulia Giordano (Engineering, The University of Trento), I have ongoing collaborations with Michael Margaliot (Electrical Engineering, Tel-Aviv University), Lars Grune (Mathematics, University of Bayreuth) and Thomas Kriecherbauer (Mathematics, University of Bayreuth).

## PUBLICATIONS

### BIBLIOMETRIC INDICES

- Journal articles (last 5 years): **20**;  
*Requirements for the Italian habilitation to associate professorship, mathematical analysis: 8.*
- Citations (last 10 years): **296** (Scopus), **447** (Google Scholar);  
*Requirements for the Italian habilitation to associate professorship, mathematical analysis: 56.*
- h-index (last 10 years): **10** (Scopus), **11** (Google Scholar);  
*Requirements for the Italian habilitation to associate professorship, mathematical analysis: 5.*

### ORIGINAL JOURNAL ARTICLES

- [PJ22] A. Jbara, **R. Katz** and E. Fridman, “Scalar averaging of rapidly-varying discrete-time systems via a non-delayed transformation”. *IEEE Transactions on Automatic Control*. IF: 6.2 (2024), Q1; *accepted, to appear*.
- [PJ21] **R. Katz**, T. Kriecherbauer, L. Grune and M. Margaliot, “On the gain of entrainment in a class of contractive bilinear control systems”. *SIAM Journal on Control and Optimization*. IF: 2.2 (2024), Q1; <https://doi.org/10.1137/23M1585714>.
- [PJ20] **R. Katz**, N. Diab and D. Batenkov, “On the accuracy of Prony’s method for recovery of exponential sums with closely spaced exponents”. *Applied and Computational Harmonic Analysis*. IF: 2.6 (2024), Q1; *accepted and appears online*.  
<https://www.sciencedirect.com/science/article/pii/S1063520324000642>
- [PJ19] F. Calà Campana, **R. Katz** and G. Giordano, “Sequential-Quadratic-Hamiltonian optimal control of epidemic models with an arbitrary number of infected and non-infected compartments”. *IEEE Control Systems Letters*. 2024. IF: 2.4 (2024), Q2.  
<https://ieeexplore.ieee.org/document/10554668>
- [PJ18] **R. Katz**, F. Mazenc and E. Fridman, “Constructive method for averaging-based stability via a delay free transformation”. *Automatica*, 163, 111568, 2024. IF: 4.8 (2024), Q1.  
<https://doi.org/10.1016/j.automatica.2024.111568>
- [PJ17] **R. Katz**, N. Diab and D. Batenkov, “Decimated Prony’s method for stable super-resolution”. *IEEE Signal Processing Letters*, 30, pp. 1467-1471, 2023. IF: 3.2 (2023), Q2.  
<https://doi.org/10.1109/LSP.2023.3324553>
- [PJ16] **R. Katz** and E. Fridman, “Global stabilization of a 1D semilinear heat equation via modal decomposition and direct Lyapunov approach”. *Automatica*, 149, 110809, 2023. IF: 4.8 (2023), Q1.  
<https://doi.org/10.1016/j.automatica.2022.110809>
- [PJ15] P. Wang, **R. Katz**, and E. Fridman, “Constructive finite-dimensional boundary control of stochastic 1D parabolic PDEs”. *Automatica*, 148, 110793, 2023. IF: 4.8 (2023), Q1.  
<https://doi.org/10.1016/j.automatica.2022.110793>
- [PJ14] **R. Katz**, E. Attias, T. Tuller, and M. Margaliot, “Translation in the cell under fierce competition for shared resources: a mathematical model”. *Journal of the Royal Society Interface*, 19, 197, 2022. IF: 3.9 (2022), Q1.  
<https://doi.org/10.1098/rsif.2022.0535>

- [PJ13] **R. Katz** and E. Fridman, “Finite-dimensional boundary control of the linear Kuramoto- Sivashinsky equation under point measurement with guaranteed L2 -gain”. *IEEE Transactions on Automatic Control*, 67, 10, 2022. IF: 6.3 (2022), Q1.  
<https://doi.org/10.1109/TAC.2021.3121234>
- [PJ12] **R. Katz** and E. Fridman, “Delayed finite-dimensional observer-based control of 1D parabolic PDEs via reduced-order LMIs”. *Automatica*, 142, 2022. IF: 6.3 (2022), Q1.  
<https://doi.org/10.1016/j.automatica.2022.110341>
- [PJ11] **R. Katz** and E. Fridman, “Global finite-dimensional observer-based stabilization of a semilinear heat equation with large input delay”. *Systems & Control Letters*, 165, 2022. IF: 2.6 (2022), Q2.  
<https://doi.org/10.1016/j.sysconle.2022.105275>
- [PJ10] **R. Katz** and E. Fridman, “Regional stabilization of the nonlinear 1D Kuramoto-Sivashinsky equation via modal decomposition”. *IEEE Control Systems Letters*, 6, 1814-1819, 2022. IF: 3 (2022), Q2.  
<https://doi.org/10.1109/LCSYS.2021.3133492>
- [PJ9] **R. Katz** and E. Fridman, “Sampled-data finite-dimensional boundary control of 1D parabolic PDEs under point measurement via a novel ISS Halanay’s inequality”. *Automatica*, 135, 2022. IF: 6.4 (2022), Q1.  
<https://doi.org/10.1016/j.automatica.2021.109966>
- [PJ8] **R. Katz** and E. Fridman, “Sub-predictors and classical predictors for finite-dimensional observer-based control of parabolic PDEs”. *IEEE Control Systems Letters*, 6, 626-631, 2022. IF: 3 (2022), Q2.  
<https://doi.org/10.1109/LCSYS.2021.3084525>
- [PJ7] **R. Katz** and E. Fridman, “Finite-dimensional control of the heat equation: Dirichlet actuation and point measurement”. *European Journal of Control*, 62, 158-164, 2021. *ECC Special Issue*. IF: 3.4 (2021), Q2.  
<https://doi.org/10.1016/j.ejcon.2021.06.009>
- [PJ6] **R. Katz** and E. Fridman, “Delayed finite-dimensional observer-based control of 1-D parabolic PDEs”. *Automatica*, 123, 2021. IF: 6.4 (2021), Q1. <https://doi.org/10.1016/j.automatica.2020.109364>
- [PJ5] **R. Katz**, E. Fridman and A. Selivanov, “Boundary delayed observer-controller design for reaction-diffusion systems”. *IEEE Transactions on Automatic Control*, 66, no. 1, 275-282, 2021. IF: 6.8 (2021), Q1.  
<https://doi.org/10.1109/TAC.2020.2973803>
- [PJ4] **R. Katz** and E. Fridman, “Constructive method for finite-dimensional observer-based control of 1-D parabolic PDEs”. *Automatica*, 122, 2020. IF: 6.4 (2020), Q1. <https://doi.org/10.1016/j.automatica.2020.109285>
- [PJ3] **R. Katz**, M. Margaliot and E. Fridman, “Entrainment to subharmonic trajectories in oscillatory discrete-time systems”. *Automatica*, 140, 2020. IF: 6.4 (2020), Q1. <https://doi.org/10.1016/j.automatica.2020.108919>
- [PJ2] A. Ditkowski and **R. Katz**, “On spectral approximations with non-standard weight functions and their implementations to generalized chaos expansions”. *Journal of Scientific Computing*, 79, 2019. IF: 2.5 (2019), Q1.  
<https://doi.org/10.1007/s10915-019-00922-5>
- [PJ1] **R. Katz** and Y. Shkolnisky, “Sampling and approximation of bandlimited volumetric data”. *Applied and Computational Harmonic Analysis*, 47, 235-247, 2018. IF: 2.6 (2019), Q1. <https://doi.org/10.1016/j.acha.2018.11.003>

#### ORIGINAL JOURNAL ARTICLES - SUBMITTED

- [SJ5] **R. Katz**, G. Giordano and M. Margaliot, “Instability of equilibrium and existence of attracting periodic orbits in general strongly 2-cooperative systems”.
- [SJ4] **R. Katz**, G. Giordano and D. Batenkov, “Data-driven identification of reaction-diffusion dynamics from finitely many non-local noisy measurements by exponential fitting”.
- [SJ3] D. Proverbio, **R. Katz** and G. Giordano, “Robustness and resilience of dynamical networks in biology and epidemiology”.
- [SJ2] **R. Katz**, G. Giordano and M. Margaliot, “Existence of attracting periodic orbits in 3-dimensional strongly 2-cooperative systems”.
- [SJ1] **R. Katz**, E. Fridman and F. Mazenc, “Quantitative averaging of rapidly-varying periodic systems”.

## CONFERENCE PAPERS - IN PROCEEDINGS

- [CIP17] **R. Katz**, G. Giordano and D. Batenkov, “Data-driven delay estimation in reaction-diffusion systems via Prony’s method”. *18th Workshop on Time Delay Systems (TDS 2024)*. Udine, Italy, 09/2024.
- [CIP16] D. Proverbio, **R. Katz** and G. Giordano, “Bridging Robustness and Resilience for Dynamical Systems in Nature”. *26th International Symposium on Mathematical Theory of Networks and Systems (MTNS 2024)*. Cambridge, UK, 08/2024.
- [CIP15] A. Jbara, **R. Katz** and E. Fridman, “Stability by averaging of linear discrete-time systems”. *2024 European Control Conference (ECC24)*, Stockholm, Sweden, 06/2024.
- [CIP14] **R. Katz**, F. Mazenc and E. Fridman, “ISS of rapidly time-varying systems via a novel presentation and delay-free transformation”. *62nd IEEE Conference on Decision and Control (CDC2023)*. Singapore, 12/2023.
- [CIP13] **R. Katz**, F. Mazenc and E. Fridman, “Stability by averaging via time-varying Lyapunov functions”. *22nd IFAC World Congress*. Yokohama, Japan, 07/2023.
- [CIP12] C. Kitsos, **R. Katz** and E. Fridman, “Internal stabilization of three interconnected semilinear reaction-diffusion PDEs with one actuated state”. *22nd IFAC World Congress*. Yokohama, Japan, 07/2023.
- [CIP11] **R. Katz**, E. Fridman and I. Basre, “Network-based deployment of multi-agents without communication of leaders with multiple followers: a PDE approach”. *61st IEEE Conference on Decision and Control (CDC2022)*. Cancun, Mexico, 12/2022.
- [CIP10] P. Wang, **R. Katz**, and E. Fridman, “Constructive method for boundary control of stochastic 1D parabolic PDEs”. *25th International Symposium on Mathematical Theory of Networks and Systems (MTNS 2022)*. Bayreuth, Germany, 09/2022.
- [CIP9] **R. Katz** and E. Fridman, “Regional stabilization of the nonlinear 1D Kuramoto-Sivashinsky equation via modal decomposition”. *2022 American Control Conference (ACC 2022)*. USA, 06/2022. Joint ACC/LCSS publication.
- [CIP8] P. Wang, **R. Katz**, and E. Fridman, “Finite-dimensional observer-based control of 1D stochastic parabolic PDEs”. *2022 American Control Conference (ACC 2022)*. USA, 06/2022.
- [CIP7] **R. Katz** and E. Fridman, “Sub-predictors vs classical predictors for finite-dimensional observer-based control of parabolic PDEs”. *60th IEEE Conference on Decision and Control*. USA, 12/2021. Joint CDC/LCSS publication.
- [CIP6] **R. Katz**, I. Basre and E. Fridman, “Delayed finite-dimensional observer-based control of 1D heat equation under Neumann actuation”. *2021 European Control Conference (ECC21)*. The Netherlands, 06/2021.
- [CIP5] **R. Katz** and E. Fridman, “Delayed Finite-Dimensional Observer-Based Control of 1-D Linear Heat Equation”. *24th International Symposium on Mathematical Theory of Networks and Systems*. UK, 08/2021. *Cancelled due to COVID-19*.
- [CIP4] **R. Katz** and E. Fridman, “Finite-Dimensional Observer-Based Control of the Kuramoto-Sivashinsky Equation Under Point Measurement and Actuation”. *59th IEEE Conference on Decision and Control*. South Korea, 12/2020.
- [CIP3] **R. Katz** and E. Fridman, “Finite-Dimensional Observer-Based Controller for Linear 1-D Heat Equation: An LMI Approach”. *21st IFAC World Congress*. Germany, 07/2020.
- [CIP2] **R. Katz**, E. Fridman and A. Selivanov, “Network-Based Boundary Observer-Controller Design for 1D Heat Equation”. *58th IEEE Conference on Decision and Control (CDC 2019)*. Nice, France, 12/2019.
- [CIP1] **R. Katz**, M. Margaliot and E. Fridman, “On Totally Positive Discrete-Time Systems”. *Mediterranean Conference on Control and Automation (MED 2019)*. Akko, Israel, 07/2019.

## CONFERENCE CONTRIBUTIONS - ABSTRACTS

- [CA3] **R. Katz**, G. Giordano and D. Batenkov, “Data-driven delay estimation in reaction-diffusion systems”. Accepted to the Congress Automatica.it 2024, Bolzano, Italy, 09/2024.
- [CA2] **R. Katz** and E. Fridman, “Stability of linear systems with rapidly-varying delays on two time-scales via asymptotic averaging”. *18th Workshop on Time Delay Systems (TDS 2024)*. Udine, Italy, 09/2024.

- [CA1] **R. Katz** and E. Fridman, “Global boundary stabilization of a semilinear heat equation via finite-dimensional nonlinear observers”. *25th International Symposium on Mathematical Theory of Networks and Systems (MTNS 2022)*. Bayreuth, Germany, 09/2022.

**CONFERENCE PAPERS – SUBMITTED / IN PREPARATION**

- [SC1] U. Sutulovic, D. Proverbio, **R. Katz** and G. Giordano, “Efficient gPC-based quantification of probabilistic robustness for systems in neuroscience”.