

# Anton Savostianov

Department of Mathematical Sciences  
Durham University  
Stockton Road  
Durham DH1 3LE, UK  
✉ [anton.savostianov@gmail.com](mailto:anton.savostianov@gmail.com)  
🌐 [www.antonsavostianov.com](http://www.antonsavostianov.com)

## Research Interests

Infinite dimensional dynamical systems generated by nonlinear partial differential equations.

## Employment

Jan 2017 – Present **Temporary Lecturer in Applied Mathematics**, *Durham University, UK*.

Oct 2015 – Oct 2016 **Postdoctoral Researcher**, *The University of Cergy-Pontoise, France*.

## Education

Jan 2012 – Sep 2015 **PhD Research in Mathematics and Statistics**, *The University of Surrey*, Guildford, Surrey, UK.

Thesis *Strichartz estimates and smooth attractors of dissipative hyperbolic equations*

Supervisor [Sergey Zelik](#)

July 2011 **MSc in Mathematics with Honours**, *V. N. Karazin Kharkiv National University*, Kharkiv, Ukraine.

Thesis *Asymptotic dynamics to a class of systems with non-local non-linearity*

Supervisor [Igor Chueshov](#)

July 2010 **BSc in Mathematics with Honours**, *V. N. Karazin Kharkiv National University*, Kharkiv, Ukraine.

Thesis *A parabolic problem with the attractor that contains a homoclinic orbit*

Supervisor [Igor Chueshov](#)

---

## Scholarships and Awards

- Jul 2014 Vice-Chancellor's Award 2014 Finalist, University of Surrey, Guildford, UK.
- Description Each year Vice-Chancellor's Award recognises exceptional performances by members of staff of the University. Only 4 Postgraduate students from the whole University became finalists of Vice-Chancellor's Award in recognition of their exceptional contribution made to research.
- Jul 2014 [First Place Student Paper Competition Award of AIMS](#), Madrid, Spain.
- 2012 - 2015 University Research Scholarship from The University of Surrey, Guildford, UK.
- 2012 - 2015 Overseas Research Scholarship from The University of Surrey, Guildford, UK.
- 2011 [Scholarship of N. I. Akhiezer Fund](#), Kharkiv, Ukraine.

---

## Talks

- Jul 2017 [Conference "Dynamics, Bifurcations and Strange Attractors"](#), Workshop IDDSA2, Nizhny Novgorod, Russia.
- May 2017 [Applied Mathematics Seminar](#), Durham University, UK.
- Mar 2017 [The 5th Bremen Winter School and Symposium "Dynamical systems and fluids"](#), University of Bremen, Germany.
- May 2016 [Séminaire d'Analyse](#), Laboratoire de Mathématiques et Modélisation d'Évry, France.
- May 2016 [Séminaire EDP et Applications](#), Université de Poitiers, France.
- Jul 2015 [Conference-School "Infinite-dimensional dynamics, dissipative systems, and attractors"](#), Nizhny Novgorod, Russia.
- Jun 2015 [Workshop: Longtime Behaviour of Nonlinear Waves](#), Bielefeld, Germany.
- Jul 2014 [10th AIMS Conference on Dynamical Systems, Differential Equations and Applications](#), Madrid, Spain.
- Mar 2014 [University of Surrey Analysis Seminar](#), Guildford, UK.
- Aug 2013 [Equadiff 13](#), Prague, Czech Republic.
- Dec 2010 [International Young Scientists' Conference "70 years of KNU's mechanics and mathematics faculty"](#), Kiev, Ukraine.

---

## Teaching Experience

- Jan 2017 – Developed and delivered the course "Numerical Methods in PDEs";  
Mar 2017 Conducted tutorials in Linear Algebra.  
[Durham University](#), UK.
- Jan 2012 – Marking of assignments in Linear Algebra, Calculus, Linear PDEs, Complex  
May 2014 Analysis; Consultations in Linear Algebra, Function Spaces, Operator Theory.  
[University of Surrey](#), UK.
- Sep 2010 – Consultations on Numerical Methods.  
Dec 2010 [V. N. Karazin Kharkiv National University](#), Ukraine.
- Sep 2009 Mathematics lessons conduction, home task marking.  
[Kharkiv Lyceum of Physics and Mathematics no. 27](#), Ukraine.

---

## Publications

- [1] A. Savostianov and S. Zelik, "Smooth attractors for the quintic wave equations with fractional damping," *Asymptotic Analysis*, vol. 87, no. 3–4, pp. 191–221, 2014. [original](#), [arXiv:1306.2294](#).
- [2] A. Savostianov and S. Zelik, "Recent progress in attractors for quintic wave equations," *Mathematica Bohemica*, vol. 139, no. 4, pp. 657–665, 2014. [original](#), [arXiv:1311.3290](#).
- [3] A. Savostianov, "Strichartz estimates and smooth attractors for a sub-quintic wave equation with fractional damping in bounded domains," *Advances in Differential Equations*, vol. 20, no. 5–6, pp. 495–530, 2015. [original](#), [arXiv:1403.7476](#).
- [4] V. Kalantarov, A. Savostianov, and S. Zelik, "Attractors for damped quintic wave equations in bounded domains," *Annales Henri Poincaré*, 2016. DOI: [10.1007/s00023-016-0480-y](#), [arXiv:1309.6272](#).
- [5] A. Savostianov and S. Zelik, "Global well-posedness and attractors for the hyperbolic Cahn-Hilliard-Oono equation in the whole space," *Mathematical Models and Methods in Applied Sciences*, vol. 26, no. 7, pp. 1357–1384, 2016. [original](#), [arXiv:1407.5890](#).
- [6] A. Savostianov and S. Zelik, "Finite dimensionality of the attractor for the hyperbolic Cahn-Hilliard-Oono equation in  $\mathbf{R}^3$ ," *Math. Meth. Appl. Sci.*, vol. 39, no. 5, pp. 1254–1267, 2016. [original](#), [arXiv:1502.02156](#).
- [7] A. Savostianov, "Infinite energy solutions for critical wave equation with fractional damping in unbounded domains," *Nonlinear Analysis*, vol. 136, pp. 136–167, 2016. [original](#), [arXiv:1511.04952](#).