| | | |
|---|---|---|
| **Andrii Goriunov** | Personal: | Born: December 21, 1984. |
| | | Citizen: Ukraine.   Gender: male. |
| **Curriculum Vitae** | Work: | Department of Nonlinear Analysis, |
| | | Institute of Mathematics, |
| | | National Academy of Sciences of Ukraine, |
| | | Tereshchenkivs'ka St., 3, 01061, Kyiv, Ukraine. |
| November 2015 | Home: | Artema St., 14a, apt. 91, 04053, Kyiv, Ukraine. |
| | Phone: | (+38 097) 225-8655, (+38 044) 235-7819 |
| | Email: | goriunov@imath.kiev.ua |
| | WWW: | `http://imath.kiev.ua/~goriunov` |

## Education

2011   Ph.D. (Math.)          Institute of Mathematics, NAS of Ukraine
        *Thesis:* One-dimensional Differential Operators with Distributional Coefficients
        *Supervisor:* Prof. V. A. Mikhailets
2007   Masters degree (Math.)   Taras Shevchenko National University of Kyiv.

## Employment

Since December 2015   Senior researcher   Institute of Mathematics, NAS of Ukraine
2013 – 2015           Researcher          Institute of Mathematics, NAS of Ukraine
2010 – 2013           Junior researcher   Institute of Mathematics, NAS of Ukraine.

## Awards and Grants

- Scholarship of National Academy of Sciences of Ukraine for young scientists, 2013 – 2014.

- Participated in Grant of National Academy of Sciences of Ukraine and Siberian Branch of Russian Academy of Sciences "Inverse Problems of Modern Mathematical Physics", 2013 – 2014.

- Participated in Grant of National Academy of Sciences of Ukraine and Russian Academy of Sciences "Modern theory of evolution problems: fractional equations, integrated semigroups, numerical analysis, spectral theory", 2012 – 2013.

- Research stay at Université Paris-Sud, France due to Grant of French Embassy in Ukraine and CNRS, 2011.

- 1 place in the Young Scientists Competition at the Humboldt Kolleg 2010 "Mathematics and life sciences: possibilities, interlacements and limits", Kyiv, Ukraine, 2010.

## Activities

- Secretary of the Young Scientists' Board of the Institute of Mathematics, Kyiv, Ukraine, 2014 – present.

- Member of the Program Committee of International Conference of Young Mathematicians, Kyiv, Ukraine, 2015.

- Member of the Organizing Committee of the Humboldt Kolleg 2014 "The Education and Science and their Role in Social and Industrial Progress of Society", Kyiv, Ukraine, 2014.

- Member of the Organizing Committee of the 2nd EUMLS Conference on Mathematics for Life Sciences, Olenivka, Crimea, Ukraine, 2013.

- Member of the Organizing Committee of the EUMLS Workshop on Mathematics for Life Sciences, Kyiv, Ukraine, 2012.

- Scientific secretary of the Humboldt Kolleg 2010 "Mathematics and life sciences: possibilities, interlacements and limits", Kyiv, Ukraine, 2010.

- Member of the Organizing Committee of the Ukrainian Mathematical Congress, Kyiv, Ukraine, 2009

## Research interests

Operator theory, spectral theory, differential operators.

## Publications

### Journal Articles

- On extensions of even-order symmetric quasidifferential operators (in Russian). *Reports of NAS of Ukraine*, 2009, no. 4, 19–24. (A. S. Goriunov, V. A. Mikhailets)

- On extensions of odd-order symmetric quasidifferential operators (in Russian). *Reports of NAS of Ukraine*, 2009, no. 9, 27–31. (A. S. Goriunov, V. A. Mikhailets)

- Resolvent convergence of Sturm–Liouville operators with singular potentials. *Mathematical Notes*, 87 (2010), no. 1–2, 287–292, see also *arXiv:1001.4160*. (A. S. Goriunov, V. A. Mikhailets)

- Regularization of singular Sturm–Liouville equations. *Methods of Functional Analysis and Topology*, 16 (2010), no. 2, 120–130, see also *arXiv:1002.4371*. (A. S. Goriunov, V. A. Mikhailets)

- Regularization of binomial differential equations with singular coefficients, (in Russian). *Proceedings of Institute of mathematics of NAS of Ukraine*, 7 (2010), no. 1, 49–67. (A. S. Goriunov, V. A. Mikhailets)

- Regularization of two-term differential equations with singular coefficients by quasiderivatives. *Ukrainian Mathematical Journal*, 63 (2012), no. 9, 1361–1378, see also *arXiv:1106.3275*. (A. S. Goriunov, V. A. Mikhailets)

- Formally self-adjoint quasi-differential operators and boundary-value problems, *Electronic Journal of Differential Equations*, 2013 no. 101, 1–16, see also *arXiv:1205.1810*. (A. S. Goriunov, V. A. Mikhailets, K. Pankrashkin)

- Convergence of two-term differential operators withs singular coefficients (in Russian). *Proceedings of Institute of mathematics of NAS of Ukraine*, 10 (2013), no. 2, 112–124. (A. S. Goriunov, V. A. Mikhailets)

- Multi-interval Sturm-Liouville boundary-value problems with distributional potentials. *Reports of NAS of Ukraine*, 2014, no. 7, 43–47, see also *arXiv:1508.05936*. (A. S. Goriunov)

- On multi-interval boundary problems for differential equations with distributional coefficients (in Russian). *Proceedings of Institute of mathematics of NAS of Ukraine*, 12 (2015), no. 2, 126–138. (A. S. Goriunov)

- Convergence and approximation of the Sturm-Liouville operators with potentials-distributions. *Ukrainian Mathematical Journal*, 67 (2015), no. 5, 680–689. (A. S. Goriunov)

### Conference Presentations

- Dissipative boundary value problems for the quasidifferential equations,
  International conference "Modern problems of mathematics, mechanics and their application",
  Moscow, Russia, March 30 – April 2, 2009

- On resolvent convergence of the Sturm-Liouville operators with singular potentials,
  International conference "Analytic methods of mechanics and complex analysis",
  Kyiv, Ukraine, June 29 – July 5, 2009.

- On the Sturm–Liouville operators with singular potentials convergence,
  Ukrainian Mathematical Congress, Kyiv, Ukraine, August 27–29, 2009.

- Formally self-adjoint quasi-differential operators,
  Ukrainian Mathematical Congress, Kyiv, Ukraine, August 27–29, 2009.

- On regularization of singular Sturm–Liouville equations,
  XIII M. Kravchuk Memorial Conference, Kyiv, Ukraine, May 13–15, 2010.

- On one-dimensional differential operators with distribution coefficients,
  Humboldt Kolleg 2010 "Mathematics and life sciences: possibilities, interlacements and limits",
  Kyiv, Ukraine, August 05–08, 2010.

- On Sturm-Liouville problems with singular coefficients,
  International conference "Modern problems of analysis and teaching of mathematics", Moscow, Russia, May 17–19, 2010.

- Sturm-Liouville expressions with distribution coefficients,
  The 8th ISAAC Congress, Moscow, Russia, August 22–27, 2011.

- Shin-Zettl quasi-differential operators and boundary problems,
  EU-Ukrainian Workshop "Mathematics for Life Sciences", Kyiv, Ukraine, September 3–14, 2012.

- Formally self-adjoint quasi-differential operators and boundary problems,
  Bogolyubov readings DIF-2013, Sevastopol, Ukraine, 23–30 July, 2013.

- Boundary problems for formally self-adjoint quasi-differential expressions,
  Crimea International Mathematical Conference, Sudak, Ukraine, September 22 – October 4, 2013.

- Boundary-value problems for quasi-differential equations,
  International conference "Differential equations, computational mathematics, function theory and mathematical methods of mechanics", Kyiv, Ukraine, April 23–24, 2014.

- Multi-interval Sturm-Liouville boundary-value problems with singular potentials,
  Humboldt Kolleg 2014 "Education and Science and their Role in Social and Industrial Progress of Society", Kyiv, Ukraine, June 12–15, 2014.

- Approximation of Sturm-Liouville operators with distributional potentials,
  International Conference of Young Mathematicians, Kyiv, Ukraine, June 3–6, 2015.