

Vivek Tewary

Curriculum Vitae

Contact

Present Address

C332, Hostel 12
Indian Institute of Technology Bombay
Mumbai, Maharashtra 400076
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Alok Tewary
Ram Niwas
Motinagar
Lucknow 226004
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Education

- 2011-* **Ph.D. in Mathematics** *in progress*
Broad Area of Research Homogenization of Partial Differential Equations
Since 2014 Indian Institute of Technology Bombay, CPI 9.5*
Advisor Prof. Sivaji Ganesh Sista
- 2011-2014 Indian Institute of Technology Kanpur
Advisors Prof. Nandini Nilakantan and Prof. Sivaji Ganesh Sista
- 2009-2011 **M.Sc., Mathematics**, July 2011
Indian Institute of Technology Kharagpur, CGPA 8.68
Project Title Bounds on Zeros of Polynomials
Project Advisor Prof. V.K. Jain
- 2006-2009 **B.Sc. Mathematics**, May 2009
St. Xavier's College, Mumbai, Affiliated to University Of Mumbai
Overall Percentage 84%
- 2003-2005 *GCE Advanced Levels, Edexcel*, August 2005
Northolt High School, Middlesex, U.K.
Overall Percentage 92.3%
- 2002-2003 *C.B.S.E. Class 10*, July 2003
Bal Vidya Mandir Senior Secondary School, Lucknow
Overall Percentage 94.8%

Publications & Preprints

Sivaji Ganesh Sista & Vivek Tewary, *Generic Simplicity of Spectral Edges and Applications to Homogenization*, accepted for publication in *Asymptotic Analysis*, arXiv:1807.00917

Academic Activities (in reverse chronological order)

- 5 January 2019 Presented a talk titled "*Simplicity of Spectral Edges and Applications to Homogenization*" at the Diamond Jubilee Symposium, Department of Mathematics, Indian Institute of Technology Bombay.
- 4-6 January 2019 Member, Organizing Committee, Diamond Jubilee Symposium, Department of Mathematics, Indian Institute of Technology Bombay.

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| 5-9 July 2018 | Presented a talk titled “ <i>Perturbation Theory of Bloch Eigenvalues and Applications to Homogenization</i> ” at the 12 th AIMS Conference on Dynamical Systems, Differential Equations and Applications in Taipei, Taiwan, organized by the National Center for Theoretical Sciences (NCTS), Taiwan and the American Institute of Mathematical Sciences (AIMS). |
| 8 July 2018 | Chaired a session titled “ <i>PDEs and Applications</i> ” at the 12 th AIMS Conference on Dynamical Systems, Differential Equations and Applications in Taipei, Taiwan, organized by the National Center for Theoretical Sciences (NCTS), Taiwan and the American Institute of Mathematical Sciences (AIMS). |
| Feb-March 2016 | Participant, <i>Advanced Workshop on Homogenization and Control: Theory & Application, National Programme on Differential Equations (NPDE-TCA)</i> . Indian Institute of Technology Kanpur. Convener Prof. T. Muthukumar. |
| November 2015 | Participant, <i>Advanced Level Workshop on Controllability Of Heat And Wave Equations, National Programme on Differential Equations (NPDE-TCA)</i> . Indian Institute of Technology Mandi. Convener Prof. M. Malik. |
| June-July 2015 | Participant, <i>Advanced School and Workshop on Control and Numerics for Fluid-Structure Interaction Problems</i> . TIFR Centre for Applicable Mathematics, Bengaluru. |
| December 2013 | Participant, <i>Advanced Workshop on Homogenization, National Programme on Differential Equations (NPDE-TCA)</i> . Indian Institute of Space Science and Technology, Thiruvananthapuram. Convener Prof. N. Sabu. |
| June-July 2013 | Participant, <i>Advanced Level Training Programme, National Programme on Differential Equations (NPDE-TCA)</i> , Department of Mathematics, Indian Institute of Science Bangalore. |
| May-June 2013 | <i>Summer Internship, National Programme on Differential Equations (NPDE-TCA)</i> , Indian Institute of Technology Bombay. Advisor Prof. Sivaji Ganesh Sista. |
| December 2012 | Participant, <i>Winternship, National Programme on Differential Equations (NPDE-TCA)</i> . Indian Institute of Technology Bombay. Advisor Prof. Sivaji Ganesh Sista. |
| July 2012 | Participant, <i>Advanced Training in Mathematics Workshop in Riemannian Geometry</i> . Tata Institute of Fundamental Research Centre for Applicable Mathematics, Bengaluru. Convener Prof. C.S. Aravinda, Prof. H. Sheshadri. |
| January 2012 | Participant, <i>Advanced Training in Mathematics Workshop in Harmonic Analysis</i> . Indian Institute of Technology Kanpur. Convener Prof. Shobha Madan, Prof. P. Mohanty. |
| May - June 2008 | Participant, <i>Mathematics Training and Talent Scheme - Level O - Mysore</i> . Organized by National Board of Higher Mathematics. |
| April - May 2008 | Summer Student, <i>Summer Student Programme in Physics</i> . Institute of Mathematical Sciences, Chennai. Nonlinear Dynamics: Coupled Map Lattices under Prof. Sudeshna Sinha. |

Teaching Assistantship

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| Autumn 2015 | MA 205 Complex Analysis (IIT Bombay). |
| Spring 2017 | MA 108 Differential Equations (IIT Goa). |
| Spring 2018 | MA 106 Linear Algebra (IIT Dharwad). |
| Spring 2018 | MA 108 Differential Equations (IIT Dharwad). |

Departmental Activities

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| 2016-present | <i>System Administrator:</i> Responsible for maintaining the Departmental Website and the M.Sc. Laboratory, Department of Mathematics, IIT Bombay. |
| 2016-present | <i>Member</i> Webpage Committee & Computer Lab Committee, Department of Mathematics, IIT Bombay. |

References

Prof. Sivaji Ganesh Sista
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Prof. Harsha Hutridurga
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Prof. Nandini Nilakantan
Department of Math. & Stat.
IIT Kanpur

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Programming Skills

Proficient in
- C and C++ programming, \LaTeX

Familiar with
- Matlab, Mathematica, Java, HTML, PHP

May 5, 2019