

# Ajinkya Kadu

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CONTACT INFORMATION	Mathematical Institute, Utrecht University Budapestlaan 6, 3584 CD Utrecht, NL	ajinkyakadu125.github.io a.a.kadu@uu.nl
RESEARCH INTERESTS	Inverse problems, Level-set Methods, Seismic Imaging, Heuristic Optimization, Distributed Algorithms	
EDUCATION	<b>Utrecht University</b> , Netherlands	
	Ph.D., Numerical Analysis and Scientific Computing	2015 - 2019 (Expected)
	<ul style="list-style-type: none"><li>• Thesis Topic: <i>Discrete Seismic Tomography</i></li><li>• Advisors: Tristan van Leeuwen and Prof. Wim A. Mulder and Prof. Joost Batenburg</li></ul>	
	<b>Indian Institute of Technology (IIT), Bombay</b> , Mumbai, India	
	B.Tech + M.Tech (Dual Degree), Aerospace Engineering	2010 - 2015
	<ul style="list-style-type: none"><li>• Topic: <i>Risk Aversion in airline supply chains with contracts</i></li><li>• Advisors: Prof. N. Hemachandra and Prof. R. P. Shimpi</li></ul>	
RESEARCH & INDUSTRIAL EXPERIENCE	<b>Visting International Research Student</b>	January - April, 2016
	Seismic Laboratory for Imaging and Modeling, University of British Columbia (UBC), Vancouver, Canada Supervisor: Prof. Felix Herrmann	
	<b>Data Science Intern</b>	May - July 2014
	Rediff.com Pvt. Ltd, Mumbai, India Supervisor: Dr. A. S. Shaja	
	<b>Industry Intern</b>	May - July 2013
	General Aviation Team, Honeywell Technology Solutions, Bangalore, India	
PUBLICATIONS	<ol style="list-style-type: none"><li>1. <b>Kadu, Ajinkya</b>, van Leeuwen, Tristan and Mulder, W.A. "Salt reconstruction in full waveform inversion with a parametric level-set method." <i>IEEE Transactions on Computational Imaging (2016)</i>, DOI: 10.1109/TCI.2016.2640761</li><li>2. <b>Kadu, Ajinkya</b>, van Leeuwen, Tristan and Mulder, W.A. "A parametric level-set approach for seismic full-waveform inversion." <i>SEG Technical Program Expanded Abstracts 2016</i>. Society of Exploration Geophysicists, 2016. 1146-1150.</li><li>3. van Leeuwen, Tristan, <b>Kadu, Ajinkya</b>, Mulder, W.A. "Geometric Imaging for Subsurface Salt Bodies" <i>ERCIM News 108 on Computational Imaging</i>, p 24</li></ol>	
ARTICLES IN PREPARATION	<ol style="list-style-type: none"><li>1. <b>Kadu, Ajinkya</b>, van Leeuwen, Tristan and Batenburg, K.J "A parametric level-set method for partially discrete tomography" submitted to International Conference on Discrete Geometry for Computer Imagery</li><li>2. <b>Kadu, Ajinkya</b>, Mulder, W.A. and van Leeuwen, Tristan "Parametric level-set full-waveform inversion in the presence of salt-bodies." submitted to SEG Annual Meeting 2017</li><li>3. Mittal, Rajiv, <b>Kadu, Ajinkya</b>, van Leeuwen, Tristan and Herrmann, F.J "Consensus full-waveform inversion."</li></ol>	

AWARDS	Travel Awards <ul style="list-style-type: none"> <li>• INdAM MATHTECH Workshop on Biomedical Imaging, Rome, Italy      Feb 2017</li> <li>• SIGMA Workshop, CIRM Marseille, France      Nov 2016</li> <li>• NWO International Research Travel Grant to visit UBC      Jan 2016</li> </ul> Student Awards <ul style="list-style-type: none"> <li>• Best Poster Award at NWO NDNS+ Workshop at Twente, NL      June 2016</li> <li>• Shell-FOM Computational Sciences PhD Fellowship      2015-19</li> <li>• Graduate Student Fellowship from Govt. of India      2014-15</li> </ul>
POSTERS & PRESENTATIONS	Presentations <ul style="list-style-type: none"> <li>• Society of Exploration Geophysics Annual Meeting, Dallas, USA      Oct 2016</li> <li>• Computational Sciences for Future Energy Conference      Oct 2016</li> <li>• Applied Math Seminar, Utrecht University, Netherlands      Sep 2016</li> <li>• Conference on Multiscale Inverse Problem, Loka Brunn, Sweden      Aug 2016</li> <li>• Mini-Symposium on Seismic Imaging, Delft, Netherlands      May 2016</li> <li>• Seismic Seminar, SLIM Group, Vancouver, Canada      Apr 2016</li> </ul> Posters <ul style="list-style-type: none"> <li>• SIGMA Conference, CIRM Marseille, France      Nov 2016</li> <li>• 41<sup>st</sup> Woudschoten Conference, Zeist, Netherlands      Oct 2016</li> <li>• NWO NDNS+ Workshop, University of Twente, Netherlands      June 2016</li> <li>• 40<sup>th</sup> Woudschoten Conference, Zeist, Netherlands      Oct 2015</li> </ul>
TEACHING EXPERIENCE	Teaching Assistant – Utrecht University <ul style="list-style-type: none"> <li>WISB 356: Introduction to Scientific Computing      Jan - Apr 2017</li> <li>WISB 251: Numerical Analysis      Nov 2016 - Jan 2017</li> </ul> Teaching Assistant – IIT, Bombay <ul style="list-style-type: none"> <li>AE 151: Introduction to Aerospace Engineering      Jan - Apr 2015</li> <li>AE 308: Engineering Design Optimization      July - Nov 2014</li> </ul>
MEMBERSHIPS	<ul style="list-style-type: none"> <li>• Society for Industrial and Applied Mathematics</li> <li>• Werkgemeenschap Scientific Computing</li> <li>• Society of Exploration Geophysics</li> </ul>
SERVICE	Founding Member, SIAM Student Chapter, Utrecht University      Jan 2017 – Present <ul style="list-style-type: none"> <li>• Spearheaded the formation of chapter and managing its day-to-day operations</li> <li>• Representing student chapter at SIAM Annual Meeting 2017 at Pittsburgh, PA</li> </ul> Head, Academic Mentorship Program, IIT Bombay      June 2014 – Apr 2015 <ul style="list-style-type: none"> <li>• Led a team of 20 mentors for providing academic support to 100+ students</li> </ul> Controls Lead, Pratham, IIT Bombay      May 2013 – Jan 2015 <ul style="list-style-type: none"> <li>• Led the controls team of 5 students working in the prototype stage of Pratham.</li> </ul>
REFERENCES	Tristan van Leeuwen Assistant Professor, Mathematical Institute      E-mail: T.vanLeeuwen@uu.nl Utrecht University, Netherlands  Wim Mulder Professor, Delft University of Technology      E-mail: W.A.Mulder@tudelft.nl Researcher, Shell Global Solutions, Rijswijk, Netherlands  Joost Batenburg Professor, Leiden University, Netherlands      E-mail: Joost.Batenburg@gmail.com Group Leader, Computational Imaging, Centrum Wiskunde Informatica, NL