

# Dr. Sourav Tarafder

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## Education

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| 2017 | Doctor of Philosophy in Pure Mathematics, University of Calcutta.<br>Title: <i>Non-Classical Set Theories and Logics Associated with them.</i> |
| 2008 | Master of Science, Department of Pure Mathematics, University of Calcutta.   |
| 2006 | Bachelor of Science in Mathematics Honours, Asutosh College, University of Calcutta.   |

## Publications

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| <b>Peer reviewed journal</b>            |  |
| 2015                                    | Loewe, B., & Tarafder, S. <i>Generalized Algebra-Valued Models of Set Theory</i> . The Review of Symbolic Logic, 8(1), pp. 192 – 205 (2015).   |
| <b>Book chapter in an edited volume</b> |  |
| 2016                                    | Tarafder, S., & Chakraborty, M. K., <i>A Paraconsistent Logic Obtained from an Algebra-Valued Model of Set Theory</i> . Beziau, J. Y., Chakraborty, M. K. and Dutta, S., editors, New Directions in Paraconsistent Logic, 5th WCP, Kolkata, India, February 2014, Springer Proceedings in Mathematics & Statistics, Vol. 152. New Delhi: Springer, pp. 165 – 183 (2016). |
| <b>Conference proceedings</b>           |  |
| 2015                                    | Tarafder, S., <i>Ordinals in an Algebra-Valued Model of a Paraconsistent Set Theory</i> . In Banerjee, M. and Krishna, S., editors. Logic and Its Applications, 6th International Conference, ICLA 2015, Mumbai, India, January 8 – 10, 2015, Lecture Notes in Computer Science, Vol. 8923. Berlin: Springer-Verlag, pp. 195 – 206 (2015).                               |

	<b>Submitted in journal</b>
2018	Loewe, B., Passmann, R., & Tarafder, S., <i>Constructing Illoyal Algebra-Valued Models of Set Theory</i> .
	<b>Accepted for contributed talk in upcoming conferences</b>
2019	<ul style="list-style-type: none"> <li>• Loewe, B., Passmann, R., &amp; Tarafder, S., <i>Constructing Illoyal Algebra-Valued Models of Set Theory</i>. 16th International Congress on Logic, Methodology and Philosophy of Science and Technology, Prague, Czech Republic, August 5 – 10, 2019.</li> <li>• Tarafder, S., <i>Foundations of mathematics in a model of paraconsistent set theory</i>. Logic Colloquium 2019, (European Summer Meeting of the Association for Symbolic Logic), Prague, Czech Republic, August 11 – 16, 2019.</li> </ul>

## Research Visists

2018	<i>The Institute of Mathematical Sciences</i> , Chennai, India, in the period: 2 June – 16 June, 2018.
2017	<i>The Institute of Mathematical Sciences</i> , Chennai, India, in the period: 19 June – 31 June, 2017.
2016	<i>The Institute of Mathematical Sciences</i> , Chennai, India, in the period: 23 October – 1 November, 2016.
2015	<i>The Institute of Mathematical Sciences, Chennai</i> , India, in the period: 10 June – 23 June, 2015.
2014	Short term research visit to the <i>University of Amsterdam</i> , Amsterdam, The Netherlands, in the period: 1 June – 10 June, 2014.
2013	Short term research visit to the <i>University of Hamburg</i> , Hamburg, Germany, in the period: 1 June – 30 June, 2013.
2012	Short term research visit to the <i>Isaac Newton Institute for Mathematical Sciences, Cambridge University</i> , Cambridge, England, in the period: 21 April – 27 May, 2012.
2010 – 2011	Research visit to the <i>Institute for Logic, Language and Computation, University of Amsterdam</i> , Amsterdam, The Netherlands, in the period: 1 September, 2010 – 31 August, 2011.

## Fellowships and Grants Awarded

2014	Travel grant from the <i>Indo-European Research Training Network in Logic (IERT-NiL)</i> for a research visit to Amsterdam.
2013	Travel grant from the <i>National Board for Higher Mathematics (NBHM)</i> , India for a research trip to Hamburg and Amsterdam.
2012	Travel grant from the <i>University of Calcutta</i> for a research visit in Cambridge.
2012	Visiting Fellowship; Isaac Newton Institute for Mathematical Sciences, Cambridge University; 21 April, 2012 – 27 May, 2012.
2010	Erasmus Mundus External Cooperation Window (EMECW 13) fellowship; Visiting Ph.D. student in the Institute for Logic, Language and Computation, University of Amsterdam; 1 September, 2010 – 31 August, 2011.
2009	Council for Scientific and Industrial Research, National Eligibility Test (CSIR – NET) fellowship; Doctoral student; Department of Pure Mathematics, University of Calcutta; 15 October, 2009 – 14 October, 2014.

## Conferences, Seminars, and Workshops Attended and Talks Delivered

2019	<ul style="list-style-type: none"> <li>• Delivered an invited talk on <i>Paraconsistent Set Theory</i> in the pre-conference workshop, <i>8th Indian Conference on Logic and its Applications (ICLA 2019)</i>, Department of Computer Science and Engineering, Indian Institute of Technology, Delhi, India, 1 March – 5 March, 2019.</li> </ul>
2018	<ul style="list-style-type: none"> <li>• Participated in the <i>7th Indian School on Logic and its Applications (Part II)</i>, Departments of Information Technology &amp; Humanities and Social Sciences, Indian Institute of Engineering Science and Technology, Shibpur, &amp; Calcutta Logic Circle, Kolkata, India, 17 December – 22 December, 2018.</li> </ul>
2017	<ul style="list-style-type: none"> <li>• Delivered a lecture in the <i>19th Annual Seminar on Logic and its Applications</i>, Department of Pure Mathematics, University of Calcutta, Kolkata, India, 13 October – 15 October, 2017.</li> <li>• Attended the <i>2nd Indian Winter School on Diagrams, 2017</i>, Jadavpur University, Kolkata, India, 13 February – 17 February, 2017.</li> <li>• Participated in the <i>7th Indian Conference on Logic and its Applications (ICLA 2017)</i>, Indian Institute of Technology, Kanpur, India, 5 January – 7 January, 2017.</li> </ul>
2016	<ul style="list-style-type: none"> <li>• Delivered an invited talk in the seminar <i>Merging Borders in Logic and Philosophy of Mathematics</i>, Department of Philosophy, University of North Bengal, North Bengal, India, 17 November, 2016.</li> </ul>

- 2015
- Presented a paper in the *International Seminar on History and Philosophy of Mathematics II: Pluralism in Mathematics*, Ramakrishna Mission Institute of Culture, Gol Park, Kolkata, India, 10 December – 12 December, 2015.
  - Presented a paper in the *Annual Meet of Calcutta Logic Circle: Logic and its Applications*, Indian Institute of Bio-Social Research and Development, Kolkata, India, 6 November – 8 November, 2015.
  - Attended the *Workshop on Logic and Computability (WLC-15)*, Indian Statistical Institute, Kolkata, India, 16 September – 17 September, 2015.
  - Delivered a lecture on Non-classical set theories and logics associated with them, The Institute of Mathematical Sciences, Chennai, India, 23 June, 2015.
  - Participated in the National Seminar on *Recent Advances in Mathematics and its Applications (RAMA-2015)*, Department of Pure Mathematics, University of Calcutta, Kolkata, India, 12th March, 2015.
  - Participated in the *14th Asian Logic Conference (ALC-2015)*, Indian Institute of Technology, Bombay, India, 5 January – 8 January, 2015.
  - Presented a paper in *The 6th Indian Conference on Logic and its Applications*, Indian Institute of Technology, Bombay, India, 8 January – 10 January, 2015.
- 2014
- Attended the conference *Annual Meet of Calcutta Logic Circle: Logic and its Applications*, Indian Institute of Bio-Social Research and Development, Kolkata, India, 17 October – 19 October, 2014.
  - Participated in the conference *Re-imaging India: Challenges and Opportunities in Finance, Management and Policy-making (within an Analytical Framework)*, St. Xaviers College, Kolkata, India, 19 September – 20 September, 2014.
  - Presented a paper in the *International Seminar on History and Philosophy of Mathematics 2014*, Bose Institute, Kolkata, India, 20 February – 22 February, 2014.
  - Presented a paper in the *5th World Congress on Paraconsistent Logic*, Indian Statistical Institute, Kolkata, India, 13 February – 17 February, 2014.
  - Attended in the school *ISLA 2014: 5th Indian School on Logic and its Applications*, Tezpur University, Assam, India, 6 January – 17 January, 2014.
- 2013
- Delivered an invited talk in the international seminar, *Seminar on Logic and Cognition (SLC 2013)*, Jadavpur University, Kolkata, India, 30 October – 1 November, 2013.
  - Participated in the *International Workshop on Diagram Logic and Cognition (DLAC 2013)*, Jadavpur University, Kolkata, India, 28 October – 29 October, 2013.
  - Presented a talk in *The 13th Asian Logic Conference (ALC 2013)*, Sun Yat-sen University, Guangzhou, China, 16 September – 20 September, 2013.
  - Participated and delivered a talk in the workshop, *Workshop on Alternative Set Theory*, University of Amsterdam, The Netherlands, 22 June – 24 June, 2013.
  - Attended the *6th Young Set Theory Workshop*, Dipartimento Di Matematica, Università di Torino, the workshop was held in Santuario di Oropa, Italy, 10 June – 14 June, 2013.

- Participated in the National Seminar on *Recent Trends in Mathematics and its Applications (RTMA-2013)*, Department of Pure Mathematics, University of Calcutta, Kolkata, India, 22nd March, 2013.
  - Attended the international seminar *TARK/ ICLA 2013*, Institute of Mathematical Sciences, Chennai, India, 7 January – 12 January, 2013.
- 2012
- Attended the National Seminar on *Logic, Peano Axioms and Number Theory*, Gokhale Memorial Girls College and Indian Statistical Institute, Kolkata, India, 14th December, 2012.
  - Delivered a lecture in the *Annual Meet on Logic and its Application: Celebrating the Alan Turing Year*, Indian Institute of Bio-Social Research and Development, Kolkata, India, 29 September – 1 October, 2012.
  - Participated and delivered a talk in the program *Semantics and Syntax: A Legacy of Alan Turing*, Isaac Newton Institute for Mathematical Science, Cambridge University, 21 April – 27 May, 2012.
  - Presented an invited lecture in *Reading Russell on the Centenary of Principia Mathematica (1910 – 1913)* (Rabindra Bharati University in Collaboration with Indian Council of Philosophical Research), Kolkata, 24 January – 25 January, 2012.
  - Participated and delivered a talk in students session in the *4th Indian School on Logic and its Applications (ISLA)*, Sikkim Manipal University, Manipal, 9 January – 20 January, 2012.
- 2011
- Participated and delivered a talk in *Logic and its Application*, Annual meet of Calcutta Logic Circle, Indian Institute of Bio-Social Research and Development, Kolkata, India, 2 September – 4 September, 2011.
  - Participated in *23rd European Summer School in Logic, Language and Information (ESSLLI, 2011)*, Slovenian Language Technologies Society, Faculty of Mathematics and Physics and Jozef Stefan Institute, Ljubljana, Slovenia, 1 August, – 7 August, 2011.
  - Participated in *Third European Set Theory Conference*, (European Science Foundation), ICMS, Edinburgh (Scotland), UK, 3 July – 8 July, 2011.
  - Attended *Mathematical Logic in the Netherlands*, University of Groningen, Groningen, The Netherlands, 19 May – 20 May, 2011.
- 2010
- Attended the *ICM Satellite Conference on Mathematical Logic and Set Theory*, Chennai Mathematical Institute, Chennai, India, 15 August – 17 August, 2010.
  - Participated in the *3rd Indian School on Logic and Applications (ISLA 2010)*, University of Hyderabad, Hyderabad, India, 18 January – 29 January, 2010.
- 2009
- Attended the *Seminar on Logic and Set Theory*, University of Calcutta, Kolkata, India, 21 December – 22 December, 2009.
  - Participated in the *3rd Indian Conference on Logic and its Applications (ICLA 2009)*, Institute of Mathematical Sciences, Chennai, India, 7 January – 8 January, 2009.

- 2008 • Participated in the *2nd Indian Winter School on Logic*, Indian Institute of Technology, Kanpur, India, 14 January – 26 January, 2008.
- 2007 • Attended the international seminar *Foundation of Mathematics, Analysis and Geometry*, University of Calcutta, India, 12 December – 14 December, 2007.
- 2006 • Participated in the national seminar on *Perspectives in Mathematics*, Ramakrishna Mission Vidyamandira, Belur Math, Howrah, India, 6 February – 8 February, 2006.

## Conferences, Seminars, and Workshops Organized

- 2017 • *19th Annual Seminar on Logic and its Applications*, Department of Pure Mathematics, University of Calcutta, Kolkata, India, 13 October – 15 October, 2017.
- 2015 • *International Seminar on History and Philosophy of Mathematics II: Pluralism in Mathematics*, Ramakrishna Mission Institute of Culture, Gol Park, Kolkata, 10 December – 12 December, 2015.
- *Logic and its Application*, IBRAD, Kolkata, 6 November – 8 November, 2015.
- 2014 • *Logic and its Application*, IBRAD, Kolkata, 17 October – 19 October, 2014.
- I was an International BRICS Committee member in the Organizing Committee of the *5th World Congress on Paraconsistent Logic*, Indian Statistical Institute, Kolkata, 13 February – 17 February, 2014.
- 2013 • *Logic and Cognition; Celebrating 25 years of Calcutta Logic Circle*, Jadavpur University, Kolkata, 30 October – 1 November, 2013.
- 2012 • *Logic and Its Application, Celebrating the Alan Turing Year*, IBRAD, Kolkata, 29 September – 1 October, 2012.
- 2011 • *Logic and its Application*, IBRAD, Kolkata, 2 September – 4 September, 2011.

## Positions Held

2014 – Till date	Assistant Professor of Mathematics and Statistics in the Department of Commerce, St. Xavier's College, Kolkata.
Session 2014 – 2015	Guest Faculty of the M. Phil. course in the School of Cognitive Science, Jadavpur University.
Session 2013 – 2014	Guest Faculty of the M. Sc. in Mathematics, Department of Mathematics, Presidency University.
Session 2013 – 2014	Guest Faculty of the M.Phil. course in the School of Cognitive Science, Jadavpur University.
2011 – 2014	Senior Research Fellow (CSIR – NET), Department of Pure Mathematics, University of Calcutta.
2009 – 2011	Junior Research Fellow (CSIR – NET), Department of Pure Mathematics, University of Calcutta.
2008 – 2009	Lecturer, B. Tech. Division, Pailan College of Management and Technology.

## Research interests

- Classical logic.
- Non-classical logics, specially paraconsistent logic.
- Classical and non-classical set theories.

## Recognition and Honor

- Member of the “Calcutta Logic Circle” (India).
- Member of the “Association for Logic in India” (India).
- Member of the “Association for Symbolic Logic” (USA).
- Member of the “European Set Theory Society” (Europe).