

Arjun Kolappurath Madathil

PERSONAL DATA

PLACE AND DATE OF BIRTH: Kannur, Kerala | 14 July 1995
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RESEARCH EXPERIENCE

AUGUST 2017 - PRESENT	Research Fellow in Quantitative Biology Indian Institute of Science Education and Research (IISER) PUNE, India Thesis Title : Modeling GSH Metabolism in Diabetes to Study the Role of Redox status in Anti-diabetic Treatment. Project Supervisor : Dr. Pranay Goel, IISER Pune Research Interests : Mathematical Modeling, Statistical Modeling, Dynamical Systems, Type 2 Diabetes, Reference: Dr. Pranay Goel
APR 2016-MAY 2017	Master Thesis Research Project Thesis Title: Stochastic Modeling and Analysis of HIV/AIDS Transmission in a Population Project Supervisor : Dr. Utpal Manna, Associate Professor, IISER Thiruvananthapuram
JAN 2016 - APR 2016	Minor Thesis Research Project Thesis Title: Stochastic Loewner evolution in physical systems Project Supervisor : Dr. Sreedhar B Dutta, Associate Professor, Department of Physics, IISER Thiruvananthapuram

EDUCATION

AUG 2017- PRESENT	PhD in Quantitative Biology Department of Biology Indian Institute of Science Education and Research (IISER), PUNE
AUG 2012-MAY 2017	Integrated BS - MS in Mathematical Sciences Indian Institute of Science Education and Research (IISER), THIRUVANANTHAPURAM <i>Major Degree in Mathematical Sciences</i> <i>Minor Degree in Physical Sciences</i>
MAR 2010-MAR 2012	Secondary Education Finished with 99 Percentage marks with best outgoing student award <i>Mambaram Higher Secondary School, Kannur, Kerala</i>

SOFTWARES AND SKILLS

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MATLAB
LATEX
Microsoft Office

INTERNSHIPS

- MAY 2016 - JUN 2016 Post Graduate Trainee
Programme on Partial Differential Equations by DST, Govt of India
Depart. of Mathematics, Indian Institute of Technology (IIT), Ropar
- DEC 2015 Visiting Project Student
Indian Institute of Management (IIM), Bangalore
Project Supervisor : Dr. Arnab Basu, Dept. of Mathematics
Topics: Modeling with stochastic games, Random walks.
- MAY 2015 - JULY 2015 Short-term Project student
University of Madras (UOM), Chennai, India
Project Supervisor : Prof. M.R Srinivasan, Dept. of Applied Statistics
Topics: Bayesian probability and applications, Risks and reliability
- MAY- JULY 2014, DEC 2014 Short-term Project student
Indian Institute of Space Science and Technology (IIST), India
Project Supervisor : Dr. T.G Deepak, Dept. of Mathematics and Statistics
Topics: Phase Type Distributions and Queuing Networks
- MAY- JULY 2013 Reading Project student
Indian Institute of Science Education and Research (IISER), Thiruvananthapuram
Project Supervisor : Dr. Sheetal Dharmati, Dept. of Mathematics
Topics: Real Analysis and Linear Algebra

CONFERENCES AND WORKSHOPS

- FACETS-15, Symposium on Advanced Mathematics and applications, Institute of Mathematical Science, Chennai, May 2015.
- Indo-Taiwan Conference on Discrete Mathematics-2015, Indian Institute of Technology Madras, June 2015.
- Workshop on High Performance Scientific Computing
- 42nd Annual Meeting of the Indian Biophysical Society, IISER Pune, March 2018.
- Dynamics of Complex Systems: School, ICTS Bangalore, July 2018
- ICMCB-2018 International Conference on mathematical modelling and computations in biosystems, IIT Roorkee, June 2018.
- ThoughtWorks E4R Symposium 2019: Science and Engineering of Complex Systems, IISER Pune, January .
- 3rd David Baker Memorial Symposium February 2019.
- Intel AI on IA Workshop, IISER Pune, 5th July 2019.

PUBLICATIONS

- Kalamkar S, Acharya J, Kolappurath Madathil A, Gajjar V, Divite U, Karandikar-Iyer S, Goel P, Ghaskadbi S. **Randomized Clinical Trial of How Long-Term Glutathione Supplementation Offers Protection from Oxidative Damage and Improves HbA1c in Elderly Type 2 Diabetic Patients.** Antioxidants. 2022; 11(5):1026. <https://doi.org/10.3390/antiox11051026>

SCHOLARSHIPS AND AWARDS

- Awarded with INSPIRE PhD Fellowship, Department of Science and Technology Govt. of India (2018-2023)
- Awarded with INSPIRE Fellowship, Department of Science and Technology Govt. of India (2012-2017)
- District Merit Scholarship, Department of Collegiate Education, Govt. of Kerala state, India (2010-12)
- National Merit Scholarship examination, Govt. of India (2010)

LANGUAGES

ENGLISH: Fluent
MALAYALAM: Mother tongue
HINDI: Intermediate Knowledge

INTERESTS AND ACTIVITIES

- Interested in Quizzing. Participated and won at various national quizzing championships at IISER Pune, IISER Thiruvananthapuram, IIST. Founding member of Quizzing Society of IISER (QSI) Thiruvananthapuram.
- Interests in Badminton. Member of college Badminton team and participated in the national sports meets, IISM (2017, 2018, 2019)
- Interests in Trekking and Mountaineering. Lead more than 30 treks in western ghats as a trek leader with Great Indian Treks.

STRENGTHS AND SKILLS

Mathematical Modeling, Dynamical systems, Statistical Modeling