Dr. Naresh Sampara

Ph.D.

+44-(0)7404050316

Naresh.sampara@gmail.com

www.linkedin.com/in/naresh-sampara-46875818

https://github.com/naresh198457

Nottingham, UK

Education:

- **Ph.D.** Liquid optics, 2009-2013 from Nottingham Trent University, UK.
- **M.Sc**. Microfabrication and Nano technology, 2007-2009 from Bangor University, Wales, UK.
- **B.E.** (ECE) Electronics and Communication Engineering, 2002-2006 from Anna University, India.

Programming & Visual Skill

- MatLab
- Python
- MS Office
- Origin
- Tableau

Analytical Skills

- Research
- Critical thinking
- Image processing
- Problem-solving
- Forecasting
- Data and metric interpreting
- Communication: oral and verbal.

Data Science skills

- Machine Learning
- Data Visualization
- Processing large data sets

Achievements and Activities

- Leverhulm trust funding.
- 4x best research work visualization awards.
- Presented my research internationally in wide variety of audience.
- Part in the public outreach.

An experimental scientist specialized in the fluid mechanics. Strong track-record of instrumentation, computation skills, analytical skills including predictive modelling, statistical analysis, data visualization, project management. Excellent problem solver, team player, curious, patient and self-motivated. Troubleshoots technical problems through practical, theoretical and logical approaches. Looking for data scientist position in which I can continue to grow.

Experiences:

Research Associate: 08/2016 to Present, University of Nottingham, UK

- I conducted experiments of the different studies including snowflake to rain droplet, bubble coalescence and bubble collapse in the micro gravity environment in the lab using super-conducting magnet. The data was obtained from the captured experimental videos by image processing.
- Compared the data with an analytical model and developed a forecasting model to predict some of the study with respect to input parameters.
- Publications are under review process and soon will be published.

Post-Doc: 02/2013 to 02/2016, University of Liege, Belgium.

- I conducted the experimental investigation of a surfing droplet on a vibrating liquid bath, which mimics the quantum like behaviour. Designed and developed an automatic experimental setup computer controlled experimental setup using Labview, which involved with the live image processing and the extracting the data.
-
- Published: Sampara 2013, Tadrist, Sampara 2020 and Tadrist, Sampara 2018
- Supervised a Master's Thesis.

Ph.D.: 11/2009 to 02/2013, Nottingham Trent University, UK

- The

Teaching Assistant: 2010 to 2012, Nottingham Trent University, UK.

- Demonstrating the Digital electronics & image processing labs to 2nd year BSc.
- Supervised, Reviewed and gra
- ded the lab work.

Projects:

Study the influence of the T20 on the Test matches.

- Web scrapped the cricket data from the cricinfo.com. Visualized history of the sport, derived the emotion of the game, and studied the T20 vs Test match.
- https://naresh198457.github.io/cricket-analysis/
- How can obtain the contrast swing in a cricket game.

Prediction of the patient data to predict the diabetic chances.

- The study the diabetic data and developed a model to predict the pre-diabetic cases using machine learning.
- https://naresh198457.github.io/cricket-analysis/

Bubble dynamics.

- The experimental study of the bubble dynamics under the micro gravity condition.

Snowflucus to rain droplet experimental study.

- The experimental study of the snowflake to rain droplet under microgravity.

Hydrodynamic quantum analogue.

- The surfing droplet to the hydrodynamic quantum analogue.
- Two Frequency Oscillation, Source of Chaos

Voltage induced spreading and liquid optics.

- Manufactured liquid optics using the induce dielectrowetting.
- Dieletrowetting 1, Dielectrowetting 2, Grating, DEW Review