

# Shawli Bardhan

## Ph.D RESEARCH SCHOLAR

Registration. No. **F/TU/COE/Ph.D/10/CSE/05/15** || Date of Registration: **18<sup>th</sup> November, 2015**

Dept. of Computer Sciences and Engineering, Tripura University ( A Central University ), Suryamaninagar, Tripura-799022

(+91) 8731006014 |shawli.cse@tripurauniv.in/ shawli.999@gmail.in

## Education

### TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)

PH.D. IN "ANALYSIS OF IR IMAGES FOR DETECTION OF INFLAMMATORY PAIN RELATED DISEASES"

Tripura, India

2015 to Present

### TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)

M.TECH. IN MEDICAL IMAGE ANALYSIS (COMPUTER SCIENCE AND ENGINEERING)

Percentage of marks obtained : **77.2%**

Tripura, India

2013 - 2014

### TRIPURA INSTITUTE OF TECHNOLOGY

B.E. IN COMPUTER SCIENCE AND ENGINEERING

Percentage of marks obtained : **75.8%**

Tripura, India

2008 - 2011

## Skills

**Programming** C/C++, MATLAB, Python, ASP.NET.

**Machine Learning Tools** EDISON, LIVSVM, Artificial Neural Network

**Languages** English, Hindi, Bengali

## Experience

### ▪ Senior Research Fellow (SRF) under DBT Twinning Project

Project title : Design and Development of Techniques for Pain Management and Breast Cancer Detection Using Infrared Imaging

Tripura University  
Computer Science & Engineering Department

June, 2016 to May, 2017

- Feature extraction oriented classification of thermogram for arthritis diagnosis.
- Implementation of inflamed region segmentation methods from thermogram.
- Collection and creation of Thermogram dataset of human body joints.

### ▪ Junior Research Fellow (JRF) under DBT Twinning Project

Project title : Design and Development of Techniques for Pain Management and Breast Cancer Detection Using Infrared Imaging

Tripura University,  
Computer Science & Engineering Department

May, 2014 to .May. 2016

- Feature extraction and asymmetry analysis based classification of thermogram.
- Preprocessing & implementation of existing methods for thermogram analysis.
- Designing of acquisition protocol design for medical infrared thermogram.

### ▪ Visiting Lecturer in AICTE approved Government Polytechnic

- Taught C++ programming language to students.
- Guided on implementing image processing oriented project of students.
- Taught Database Management System (DBMS) course.

Women's Polytechnic,  
Agartala , Tripura

August, 2011 to October, 2011

## Conferences

2017 "Evaluation of Background Subtraction Effect on Classification and Segmentation of Knee Thermogram",  
Presented on 8th International Conference on Computing Communication and Networking Technologies

Published By : **IEEE**  
Held on : **IIT Delhi, India**

2016 "Pain Related Inflammation Analysis using Infrared Images",  
International Symposium on Commercial + Scientific Sensing and Imaging, International Symposium on Commercial + Scientific Sensing and Imaging,

Published By : **SPIE**  
Held on: **Baltimore Convention Center, US**

- 2015 **“A Review on Inflammatory Pain Detection in Human Body through Infrared Image Analysis”**,  
Presented International Symposium on Advanced Computing and Communication 2015 (ISACC 2015) *Published by : IEEE  
Held on: Assam University, India*
- 2014 **“E-Pain Management using Thermography”**,  
Presented on 1st National Seminar on E-resource and E-learning: Challenges and Opportunities *Held on :Bir Bikram Memorial College, Agartala, India*

## Workshop Attended

---

- July 2017 **“Big Data Analytics”**,  
Organized by Department of Information Technology, Bir Bikram Memorial College (BBMC). *Held on: BBMC, Agartala, India*
- February 2017 **“Workshop on Machine Learning and Applications”**,  
Organized by Department of CVPR unit, ISI, Kolkata and Department of Information Technology, Tripura University. *Held on: Tripura University, India*
- November 2015 **“National Level Workshop on Computational Aspects of Inflammatory Pain Related Diseases”**,  
Organized by Department of Computer Science and Engineering, Tripura University. *Held on: Tripura University, India*
- August 2015 **“Workshop on Big Data Analytics”**,  
Organized by ACM Student Chapter, ISI Kolkata and Indian Statistical Institute. *Held on: ISI Kolkata, India*
- August 2015 **“Workshop on Emerging Areas in Wireless Networks & Communication”**,  
Organized by The Institution of Engineers (India), Tripura State Centre and Department of Computer Science and Engineering, Tripura University. *Held on: Tripura University, India*
- February 2015 **“Workshop On Fundamentals Of Image Analysis And Pattern Recognition”**,  
organized by Department of Compute Science and Department of Information Technology, Tripura University *Held on : Tripura University*
- September 2014 **“Workshop on Understanding the Books & Journal Article Publishing Process”**,  
Organized by Elsevier in Collaboration with Central Library, Tripura University. *Held on : Tripura University*
- July 2014 **“Workshop on Activities of Society for Applied Microwave Electronics Engineering & Research in Emerging Fields of Computer & Electronics Science & Engineering”**,  
Organized by Department of Compute Science and Department of Information Technology, Tripura University *Held on : Tripura University*
- May 2014 **“Workshop on Digital Holograpy”**,  
organized by Department of Compute Science and Department of Information Technology, Tripura University *Held on : Tripura University*
- November 2012 **“Workshop on Rough Set and its Application”**,  
Organized by Dept. of Mathematics, Tripura University and FRSA. *Held on : Tripura University*

## PROFESSIONAL TRAINING

---

- June 2010 **Undergone 4 weeks Industrial Training at National Informatics Center, Agartala, India using .NET Technologies on development of “Training Management System”** *Training Period: 01.06.2010 to 30.06.2010*
- November 2014 **Undergone 20 days Training under DBT-Twinning Project purpose at Jadavpur University, Kolkata in “knowhow and techniques required to implement the project”** *Training Period: 01.11.2014 to 20.11.2014*