



DHYANA CHALLEPARAMBIL BHARATHAN

Doctoral Student | University of Twente- Wetsus

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📍 Leeuwarden, Netherlands

AREAS OF INTEREST

- Optical Fiber Sensing
- Fiber Bragg Gratings (FBG)
- Rare-earth doped specialty optical fibers
- Whispering Gallery Mode(WGM) micro-resonators

SOFTWARE

- SCILAB
- Mathematica
- Origin
- MATLAB
- C and C++ programming
- LaTeX
- Microsoft office

LANGUAGES

Lang 1: English

Lang 2: Malayalam(Native)

Lang 3: Hindi

PROJECT

Early-Stage Researcher- EMPOWER Doctoral Programme

(Expected duration- April 2022 – March 2026)

Project Title: Optics based distributed sensing for groundwater quality management

Co-funded by **European Commission** through **MSCA- COFUND**

Project Coordinator: WETSUS

University Partner: University of Twente

Integrated with **Business Oriented Training (MBA)**

Grant agreement ID: 101034321

EDUCATION

5yr Integrated Masters in Photonics | **International School of Photonics(ISP), Cochin University of Science and Technology(CUSAT)**

📅 August 2016 - July 2021 📍 Kochi, India

CGPA- 8.53 (out of 10)

EXPERIENCE

Master Thesis Project | **Institut de Physique de Nice (INPHYNI), Université Côte d'Azur, France**

📅 February 2021 - June 2021 📍 Online at a distance

- Title: Frequency domain spectroscopic method for the characterization of rare earth doped optical fiber gain media
- Supervisor: Dr. Bernard Dussardier, Group leader, Fiber optics and Applications(FOA), INPHYNI, Nice, France

Bachelor Thesis Project | **International School of Photonics(ISP), Cochin University of Science and Technology(CUSAT)**

📅 December 2018 - April 2019 📍 Kochi, India

- Title: Characterization of Whispering Gallery Mode(WGM) emission from a dye doped step-index polymer optical fiber
- Supervisor: Prof. M. Kailasnath, Professor, ISP-CUSAT

ACHIEVEMENTS

- *Received Award of Excellence for being the school topper in AISSCE, 2016 awarded by Sahodaya School Complex*

OTHER INFO

- **Nationality:** Indian
- **D.O.B:** 25th March 1998
- **Hobbies:** Writing, Sketching, Painting, Reading, Movies

Summer Internship Programme 2019 | *Indian Institute of Space Science and Technology(IIST)*



May 2019 - July 2019



Thiruvananthapuram, India

- *Title: Light Absorption Enhancement in Solar Cells*
- *Supervisor: Dr. Sooraj Ravindran, Asst. Professor, Department of Avionics, IIST, Trivandrum, India*

PARTICIPATION AND ACTIVITIES

- *“Etch New 2020” (Part of organizing committee) - Optics fair held at ISP-CUSAT, an outreach program aiming high school students*
- *IONS MANIPAL 2019*
- *DAE-BRNS National Laser Symposium 2018 (NLS-27)*
- *IONS KOCHI 2017 (hosted by ISP-CUSAT)*
- *Summer School in Optics and Photonics 2017, IISC Bangalore*
- *National Photonics Symposium held at ISP, CUSAT (2017,2019,2020)*

REFERENCES

- **Dr.ir. Martijn Wagterveld**

Scientific Project Manager at Wetsus and Managing Director at Lamp-ion B.V.



martijn.wagterveld@wetusus.nl

- **Prof. dr. Ir. H.L. (Herman) Offerhaus**

Professor, Optical Sciences group, Faculty of Science and Technology (TNW),

University of Twente



h.l.offerhaus@utwente.nl



July 2021- April 2022 – Unemployed



Kerala, India