

NAJNIN SHARMIN

Present address: 8 Ferncourt view, Firhouse, Dublin 24, Ireland

Mobile: +353 89 482 3453

Email: najnin.sharmin@ucdconnect.ie

Nationality: Bangladeshi

Date of birth: January 1, 1990

Gender: Female

Education

Sep 2013 – Dec 2015	Master's Degree Programme	Institute of Photonics University of Eastern Finland, Joensuu campus, Finland. <i>Subject:</i> Photonics
Feb 2012 – Jan 2013	Master of science	Shahjalal University of Science and Technology, Sylhet, Bangladesh <i>Subject:</i> Physics Overall CGPA: 3.81 / 4.00.
Mar 2008 – Feb 2012	Bachelor of science	Shahjalal University of Science and Technology, Sylhet, Bangladesh <i>Subject:</i> Physics Overall CGPA: 3.58 / 4.00.

Research Experience

Master's thesis
(Feb 2015-Dec 2015) **Coherence measurements with a wavefront-folding interferometer.**
(The thesis contains theoretical and experimental studies on spatial coherence measurements and modulation of Gaussian beams, ring and a set of grating on diffuser by using a wavefront folding interferometer)

Advanced laboratory practices
(Sep 2013-Dec 2015)

- Talbot effects and diffraction regimes.
- Thermochromism.
- Mechanical and optical characterization of a surface.
- Electric Impedance Spectroscopy.
- Simulation of a black body radiation with a RGB-led.

Skills

Lab skills Alignment and testing of optical set up, Image/video capturing and post-processing, Data analysis via MATLAB, Camera/wavefront sensor calibration. Competent user of lenses, prisms, grating, beam splitters, micro-mirror devices and other optical components.

Computer skills **Operating System:** Windows SEVEN/EIGHT/TEN.
Computer Languages: C/C++, MATLAB.
Tools and System: MS word, Excel, Power point 2013; LaTeX.
Optical design program: Zemax, LabVIEW (Learning).

- Competencies**
- Excellent at problem solving, scientific data analysis and report writing
 - Innovative and hardworking
 - Good team player and leading ability
 - Keen to learn new skills
 - Good communication skills

Language skills

Bengali: native.
English: fluent in speaking, reading and writing.
Hindi: fluent in speaking.
Finnish: basic.

Publication(s)

Henri Partanen, Najnin Sharmin, Jani Tervo, and Jari Turunen, “*Specular and anti-specular light beams*,” Opt. Express **23**, 28718-28727 (2015).

Grant and Scholarships

- Master’s degree program Scholarship and Grant from “Institute of Photonics”, University of Eastern Finland, Joensuu, Finland (September 2013- May 2015) for my Master’s study.
- Divisional Scholarship for my excellent result at “Master of Science” within all Public Universities of Sylhet division, Bangladesh (2013).
- Scholarship from “Department of Physics”, Shahjalal University of Science and Technology, Sylhet, Bangladesh for my excellent results in 3 different semesters during my 4 year Bachelor study (2008-2012).
- Junior Scholarship (2001) from the Government of Bangladesh.
- Primary Scholarship (1998) from the Government of Bangladesh.

Achievements

- Ranked among top 1% students in Bachelor of Science (Physics).
- Department topper in Master of Science (Physics).

References:

1. **Brian Vohnsen**
Stokes Lecturer, School of Physics,
University College Dublin, Dublin 4, Ireland.
Email: brian.vohnsen@ucd.ie, Phone: +353-(1)-716-2217
2. **Jari Turunen**
Professor, Institute of Photonics,
University of Eastern Finland, Joensuu, Finland.
Email: jari.turunen@uef.fi, Phone: +3580294453291