SHUBHAM CHANDEL

M.SC PHOTONICS,
INTERNATIONAL SCHOOL OF PHOTONICS (ISP)
PhD (JRF)
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cgpa=8.1

ACADEMIC RECORD

Name of ExamYearPercentage marksX Standard - Bihar School Examination Board (BSEB)200581XII Standard - Bihar Intermediate Education Council (BIEC)200870

1st Class with distinction

5 Year Integrated MSc in Photonics

International School of Photonics (ISP), Cochin University of Science & Technology(CUSAT), Cochin – 682022, Kerala, India

Year : 2008 – 2013

AREAS OF INTERESTS

Plasmonics, Biophotonics, Light Matter Interaction

Publications

Journal Publication

- ✓ Amal Narayanan, **Shubham Chandel**, Nirmalya Ghosh, and Priyadarsi De, Analytical Chemistry, DOI: 10.1021/acs.analchem.5b01794.
- ✓ Sudipta Saha, Jalpa Soni, **Shubham Chandel**, Uday Kumar, Nirmalya Ghosh,DOI: 10.1117/1.JBO.20.8.085005
- ✓ **S. Chandel**, J. Jagtap, J. Soni, N.Das, S. Chatterjee, A. Pradhan, and N. Ghosh, Vol. 39, Issue 2, pp. 243-246 (2014), Optics Letters, republished VJBO, Volume 9, Issue 3.
- ✓ Jalpa Soni, Harsh Purwar, Harshit Lakhotia, **Shubham Chandel**, Chitram, Banerjee, Uday Kumar, and Nirmalya Ghosh Optics Express Vol. 21, Iss. 13, pp. 15475–15489 (2013),republished (VJBO), Vol-8, Issue-8

Paper under Review/Manuscript under Preparation

- "Tunable Giant Spin Specific Beam Shift using Space varying Geometric and Dynamical phase of light"
 Mandira Pal, Chitram Banerjee, Shubham Chandel, Ankan Bag, Nirmalya Ghosh under submitted to Nature Photonics (reference number: NPHOT-2015-06-00777)
- "Quantitative spectral Mueller polarimetry of single isolated nanostructure," under preparation.
- > Polarization controlled tuning of plasmonic Fano like resonances, under preparation

Conference Publication

- Spin specific beam shift poster presentation in the workshop "Photonics for Imaging and Sensing" in the Centre for Research in Nanoscience & Nanotechnology (CRNN) Kolkata, 2015
- Poster Presentation entitled Giant Spin Hall Effect of light in exotic optical system Photonics Europe 2014
- Mueller matrix Polarimetry in fluorescence scattering from biological tissues J. Soni, S. Chandel, J Jagtap, A.Pradhan, N. ghosh, FIO-LS 2013 OSA Technical Digest (online) (Optical Society of America, 2013), paper FW5A.3.
- Development and Eigen value calibration of an automated spectral Mueller matrix system for Biomedical Polarimetry, Harsh Purwar, Shubham Chandel, Nirmalya Ghosh. Proc. SPIE 8230, 823019 (2012);

- doi:10.1117/12.906668
- A Study of CdS and Ag doped CdS Prepared through CBD Technique, S. Chandel, Ajan, P.R, Vallamattom, A.J, Nampoori, V.P.N, Radhakrishnan, P. International Conference on Fibre Optics and Photonics, OSA Technical Digest (online) (Optical Society of America, 2012), paper M3A.6.
- Synthesis and Characterization of Ag doped CdS nanoparticle, Shubham Chandel, Ajan P.R, IONS –IIT Delhi 2011

Research Experiance

PhD Supervisor: Dr. Nirmalya Ghosh, IISER-K, India

Ongoing Work:

- Polarimetric Investigation of Plasmon resonances in various Nano-structures.
- Study of spin orbit interaction (SOI) of light from plasmonic structures.
- Quantitative study of degradation of Myelin in Multiple Sclerosis (MS).

AFFILIATIONS/ ACTIVITIES/AWARDS

University:-

- > Participated in Two day workshop on Light matter interactions and applications 2015, IISER-K, India.
- > 1st Prize Inter batch Badminton tournament, IISER-K, 2014.
- OSA Travel grant for attending FiO/LS 2012, Rochester, USA
- > 3rd prize Micro Talk paper presentation at International Conference "IONS- Asia", IIT Delhi, 2011
- 2nd Prize Inter department Badminton Championship, CUSAT, 2012.
- Co-Editor Annual Magazine of PSI "Photonics News" 2011 edition
- "Aspire Scholarship" Year 2011, 2012
- Attended the Summer School and Presented a Poster on "Automated Spectral Mueller Matrix Polarimeter" at SNBNCBS Kolkata,2011
- Workshop on Scanning Electron Microscopy(SEM) at STIC India
- President ISP-OSA Student Chapter
- Volunteered Indo-UK workshop
- Organizing Member"Optics to School" Program of the SPIE activities and of Laser Fest (celebration on 50 Yrs. of lasers by whole optical society)

Conference attended:-

- FiO-LS 2012, Photonics 2012, IONS Asia1 & 2, AMOP 2012, APW 2011-12, Science Conclave 2010, Indo-UK Workshop 2008
- Apart from studies explored my skills by doing 2 documentary movies in CUSAT

School Level:-

- District Badminton Champion, 2004
- Best student Award, 2004
- 3rd prize Debate Organized by Red Cross Society, on World Health Day, 2003.
- > 4th Prize Quiz Contest Organized by "Antarrashtriya Gayatri Pariwar" 2003

Experimental Expertise

Various Lasers, Scanning Electron Microscope(SEM), Dark Field Microscope, Fluorescence Microscope, Optical Lithography, Absorption Spectrometer, Photoluminescence Spectrometer, Fluorometer, Differential Interference Contrast Microscopy(DIC), CCD Spectrometer, EM CCD, Spatial Light Modulator, Spin Coater, X-Ray Diffraction(XRD), Digital Storage Oscilloscope, Fiber Drawing Machine,

Software Proficiency: - Matlab, Origin, COMSOL

PERSONAL DETAILS

Name - Shubham Chandel
Mother's name- Prof. Anita Singh

Father's name- Adv. Shiv Nandan Singh

Date of birthGenderNationalityPassport No
Man 04, 1991
Male
Indian
K1333022

Language known- English ,Hindi (M), French, Sanskrit, Malayalam, Bengali

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Permanent Address- s/o Shri Shiv Nandan Singh

Medanimal Pokhra, Hajipur Vaishali, Bihar, India,pin-844101

University/Department website- http://phys.iiserkol.ac.in/

REFERENCES

1. Dr. Nirmalya Ghosh

IISER-K, Nadia, W.B, India Mobile no-+91-9734678247 E-mail: nghosh@iiserkol.ac.in

2. Prof. A. Pradhan

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3. Prof. P K Panigrahi

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