

GEEVARGHESE GEORGE

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EDUCATION

- Université de Strasbourg**, Strasbourg, France October 2017 –
Theory and Simulation of Polymers Group (ETSP), Institut Charles Sadron
PhD in Computational Polymer Physics
Thesis: Molecular dynamics simulation of comb-copolymer films
Supervisor: Dr Joachim Wittmer
- Universität Freiburg**, Freiburg, Germany September 2015 – August 2017
Université de Strasbourg, Strasbourg, France (Erasmus) Note: *Bien*
International Master on Polymer Science (IM-PolyS)
Thesis: Computer simulation of polymer melts in the bulk and under confinement
Supervisor: Dr Hendrik Meyer
- Cochin University of Science and Technology**, Kochi, India April 2014
B.Tech in Polymer Science and Engineering *First Class*
Thesis: Effect of high structure carbon black in truck tire tread compound

AREAS OF INTEREST

Polymer thin films, polymer processing, characterization, nanolithography

RESEARCH EXPERIENCE

- Thesis Student** October 2016 – July 2017
Institut Charles Sadron - CNRS, Strasbourg, France
- Studied polymer melt behaviour at interfaces using computer models (LAMMPS)
 - Developed layer resolved analysis method for characterizing polymer melt at interfaces
- Research Intern** May 2016
Institut für Mikrosystemtechnik (IMTEK), Freiburg, Germany
- Fibrinogen adsorption on multilayer polymer coated surfaces using SPR
 - Contact angle of surfaces and determining the surface free energy using Zisman method
 - Thickness measurement of hydrogel and PS coatings using XRR and Ellipsometry
 - Surface characterization of Silica wafer coated with a Propyl SMAMP layer using AFM
 - Characterization of the structure of protein layers using FTIR
 - Microarray printing on hydrophobic and hydrophilic surfaces and its characterization
 - Characterisation of a block copolymer made of 4-(methacryloxy)benzophenone and heptadecafluorodecyl acrylate using XPS
- Research Intern** February – April 2016
Institut für Makromolekulare Chemie, Freiburg, Germany
- Synthesis of PLGA-NP and its uptake into A549 cells to study potential drug delivery applications
Supervisor: Dr Markus Heiny
 - Surface modification by SiNP and study on the behaviour of MC3T3-E1 cells on such substrates by characterizing F-actin cytoskeleton and cell viability
Supervisor: Dr Markus Heiny

- Solution Synthesis and Characterization of Poly(L-Lactic Acid) and Poly(D,L-Lactic Acid)
Supervisor: Dr Maziar Matloubi

Thesis Student

February 2014 – 2014 May

Phillips Carbon Black Limited (PCBL), Ernakulam, India

- Study on the effect of High Structure in N220 and N330 Black

Supervisor(s): Prof Dr Rani Joseph, Mr Mathew Varghese (Head – QA, PCBL)

Minor Project

January 2012 – February 2012

Cochin University of Science and Technology, Kochi, India

- Study on Electrical Conductivity of Polyanilene/Polyurethane Films

Supervisor: Dr Shobha AP

WORK EXPERIENCE/OTHERS

Minijob/Studentenhaus Tutor

September 2016

Studierendenwerk Freiburg, Germany

- Organized events to welcome students into the Studentenhaus
- Helped incoming international students to get acquainted with the new environment

Co-founder

February 2013 – February 2015

Brandkaro Pvt. Ltd, Kochi, India

- Motivated and led a highly talented pool of graphic/web designers based in Kochi
- Worked with the core team to improve team throughput and client satisfaction
- Conceptualized “LoveUrLab” and similar projects of academic importance

Intern

May 2013 – June 2013

Indian Rubber Manufacturers Research Association, Mumbai, India

- Studied industrial grade tyre testing standards at the Tyre Testing Facility
- Assisted research staff in mixing and testing formulated rubber compounds
- Reported test results to the Facility Manager and Institute Director

Intern

February 2013 – April 2013

Rubber Research Institute of India, Kottayam, India

- Familiarized with manufacturing process and testing of Natural Rubber based products
- Studied and carried out characterization of Natural Rubber and Latex
- Manufactured NR based products via dip coating and mold curing methods

Intern

April 2012 – July 2012

Rado/CEAT Tyres, Kothamangalam, India

- Familiarized with Lean Management concepts followed in Tyre Industry
- Worked with R&D team to carry out simple tire cord tests
- Suggested pragmatic process improvements to reduce part defect rate

AWARDS

- Erasmus+ Mobility Scholarship, 3/4 semesters
- UFA-DFH Mobility Grant, 3/4 semesters

SKILLS

Characterization/Processing: SEC, MALDI-ToF, Contact Angle, AFM, SPR, XPS, XRR, Ellipsometry, Spin Coating, Two Roll Milling, Compression Moulding, MFI, TGA, DSC, FTIR, Dynamic RPA, ODR, MDR, Hardness, Abrasion Test, Tensile Test, Impact Test, SEM, TEM, Florescence Microscopy

Programming/Others: C/C++, LAMMPS, Shell Scripting, L^AT_EX