

Graduate Students Supervised (83 total, PhD and MS)

PhD Students (52 with 20 current)

1. Eva Pasquier – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University (with Grenoble INP – Pagora, France, Prof. Julien Bras, co-supervisor):
2. Ya Zhu (starting fall 2018) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University (with College of Material Science and Engineering, Northeast Forestry University, China)
3. Xiao Zhang (starting fall 2018) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:
4. Saara Lähtevänoja (starting fall 2018) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:
5. Alvaro Gonzalez Vogel (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University: (with Celulosa Arauco, Chile)
6. Annamari Jukkola (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:
7. Annika Ketola (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University: (With VTT, Finland)
8. Janika Lehtonen (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:
9. Karoliina Helanto (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University: (with Metsä Fibre, Finland)
10. Ling Wang (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:
11. Luiz Greca Garcia (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:
12. Meri Lundahl (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:
13. Rubina Ajdary (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:
14. Sanna Virtanen (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:
15. Tero Kämäräinen (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:.
16. Wenchao Xiang (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:
17. Katariina Solin (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:
18. Konrad Klockars (current) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University:
19. Emily Facchine (current) – Ph.D., Department of Chemical and Biomolecular Engineering, NCSU:
20. Sooah An (current) – Ph.D., Department of Chemical and Biomolecular Engineering, NCSU:
21. Sanna Virtanen – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University: From wood to industrial polymeric biomaterials, August 2018.
22. Anurodh Tripathi (NCSU, USA) – Ph.D., Department of Chemical and Biomolecular Engineering, NCSU: Porous and light-weight cellulose diacetate structures for environmental remediation, July 2018 (co-advisor: Prof. Saad Khan)
23. Joe Lavoie (Glen Raven, USA) – Ph.D., Department of Chemical and Biomolecular Engineering, NCSU: Approaches for Surface Energy Control of Nonwoven Fibers for Alcohol Repellency and Electret Charge Protection, February 2018 (co-advisor: Prof. Saad Khan).

24. Prajesh Adhikari (Intel, USA) – Ph.D., Department of Chemical and Biomolecular Engineering, NCSU: Developing New Multicomponent Systems: From Coatings, Gels to Nanofiller Composites, January 2018 (co-advisor: Prof. Saad Khan).
25. Ahsan Uddin (Tampere University, Finland)– Ph.D., Chem. Eng, Aalto University: Nanocellulose for control synthesis of nanoparticles and antimicrobial applications, 2018.
26. Miika Nikinmaa (Suominen, USA) – Ph.D., College of Textile, Fiber and Polymer Science, NCSU: Wet-lay of Synthetic Fibers with Complex Fluids, 2017 (co-advisor: Prof. Behnam Pourdeyhimi).
27. Alexey Khalalo (VTT) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University: Advanced structures and compositions for 3d forming of cellulosic fibers, 2017.
28. Majja Vuoriluoto – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University: Engineering Nanocellulose Biointerfaces Toward Bioactivity and Strength, 2017.
29. Jiaqi Guo (University of Freiburg, Germany) – Ph.D., Bioproducts and Biosystems, Chem. Eng, Aalto University: Covalent modification of nanocellulose towards advanced functional materials, 2017.
30. Fatima Vargas Gonzalez (AINIA, Spain) – Ph.D. Química Inorgánica e Ingeniería Química, Universidad de Cordoba, Spain: Biorrefinería de residuos de la industria agroalimentaria: Valorización de paja de cereales, 2017 (co-advisor: Prof. Alejandro Rodríguez).
31. Parham Tayeb (University of Maine, USA) – Ph.D. Forest Biomaterials, NCSU: Controlling the Hydrophobic Interactions in Papermaking Colloidal Systems by Soy Proteins and Lipoxygenases, 2016 (co-advisor: Prof. Martin Hubbe).
32. Consuelo Fritz (Leitat, Chile) – Ph.D. Forest Biomaterials, NCSU: Lignocellulosic Materials and their Interactions with Proteins and Surface Active Molecules, 2016 (co-advisor: Prof. Hasan Jameel).
33. Xioamin Lu (NCSU) – Ph.D. Forest Biomaterials, NCSU: Nanocellulose as additive and reinforcing agent in melt spinning of polyethylene and polypropylene, 2016 (co-advisor: Prof. Jan Genzer).
34. Shuai Li (Fiberstar, USA) – Ph.D. Forest Biomaterials, NCSU: Valorization of lignins for use in multi-phase systems, 2015.
35. Markus Korhonen (Kemira, Finland)– Ph.D. Forest Products Technology, Aalto University: Flocculation of cellulosic materials, polyelectrolyte complexes and mineral particles (advisor), 2015 (co-advisor: Prof. Janne Laine).
36. Carlos Carrillo (Invista, USA) – Ph.D. Forest Biomaterials, NCSU: Application of Complex Fluids in Lignocellulose Processing, 2014 (co-advisor: Prof. Daniel Saloni).
37. Arboleda, Julio (Colorquimica, Colombia) – Ph.D. Forest Biomaterials, NCSU: Chemical and Physical Characteristics of Soy Proteins for New Industrial Applications, 2014 (co-advisor: Prof. Lucian Lucia).
38. Carlos Salas (Georgia Pacific, USA) – Ph.D. Forest Biomaterials, NCSU: Soy-based Polymers for Surface Modification and Interactions with Lignocellulosic Materials, 2014 (co-advisor: Prof. Lucian Lucia).
39. Laura Taajamaa (Ireland Science Foundation) – Ph.D. Forest Products Technology, Aalto University, Supported ultrathin films and non-woven fibre mats from polysaccharide containing bicomponent polymer blends (advisor), 2014 (co-advisor: Prof. Janne Laine).
40. Abdelrahman Abdelgawad (National Research Center, Egypt) – Ph.D. Fiber & Polymer Science, NCSU: Antimicrobial Wound Dressing Nanofiber Mats from Multicomponent (chitosan/silver-NPs/polyvinyl alcohol) Systems, 2013 (co-advisor: Prof. Sam Hudson).

41. Nafisa Islam (Faculty of Bangladesh University of Engineering) – Ph.D. Chemical & Biomelecular Engineering, NCSU: Surface plasmon resonance studies of the specific interactions of hexamer peptide ligands with human immunoglobulin G, 2013 (co-advisor: Prof. Ruben Carbonell).
42. Junyeong Park (NCSU, USA) – Ph.D. Forest Biomaterials, NCSU: Structural and Chemical Characterization of Thermally-Treated Woody Biomass, 2013 (co-advisor: Prof. Sunky Park).
43. Kiran Goli (Intel, USA) – Ph.D. Materials Science & Engineering, NCSU: Functional Coatings Based on Denaturation and Adsorption of Proteins, 2012 (co-advisor: Prof. Jan Genzer).
44. Xiaomeng Liu (Syngenta, USA) – Ph.D. Forest Biomaterials, NCSU: Partitioning of Amphiphilic and Charged Molecules on Polymeric Surfaces by Physisorption, 2011 (co-advisor: Prof. Jan Genzer).
45. Ingrid Hoeger (Kimberly Clark Corporation, USA) – Ph.D. Forest Biomaterials, NCSU: Ultrathin films of cellulose and lignin for studies on interfacial phenomena, 2011 (co-advisor: Prof. Steve Kelley).
46. Justin Zoppe (Adolphe Merkle Institute, Switzerland) – Ph.D. Forest Biomaterials, NCSU: Surface Modification of Nanocellulose Substrates, 2011 (co-advisor: Prof. Richard Venditti).
47. Maria Soledad Peresin (Faculty Auburn University, USA) – Ph.D. Forest Biomaterials, NCSU: Novel Lignocellulosic Composites, 2011 (co-advisor: Prof. Joel Pawlak).
48. Mir Quddus (Guilford Performance Textiles, USA) – Ph.D. Fiber & Polymer Science, NCSU: A systematic study of fatty acids interacting with crystalline cellulose surfaces via molecular dynamics simulations, 2011 (co-advisor: Prof. Melissa Pasquinelli).
49. Spence, Kelley (Environmental Protection Agency, USA) – Ph.D. Forest Biomaterials, NCSU: Processing and Properties of Microfibrillated Cellulose, 2010 (co-advisor: Prof. Richard Venditti).
50. Gang Hu (Georgia Tech, USA) – Ph.D. Forest Biomaterials, NCSU: Adsorption and activity of cellulase enzymes on various cellulose substrates, 2009 (co-advisor: Prof. John Heitmann).
51. Hongyi Liu (Pawnee Corporation, USA) – Ph.D. Fiber & Polymer Science, NCSU: Fiber Lubrication: A Molecular Dynamics Simulation Study, 2009 (co-advisor: Prof. Wendy Krause).
52. Junlong Song (Faculty, Nanjing Forestry University, China) – Ph.D. Forest Biomaterials, NCSU: Adsorption of Amphoteric and Nonionic Polymers on Organic Thin Films, 2008.

MS students (31 total, 2 current)

53. Mikko Laine (current)– M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University:
54. Olli Lehtinen (current)– Licentiate., Bioproducts and Biosystems, Chem. Eng, Aalto University:
55. Sonja Päärnilä – M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University: Lignin films - production and characterization, June 2018.
56. Katariina Solin – M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University: Bioactive Nanocellulose Films with Spatial Definition, May, 2018.
57. Klockars Konrad – M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University: Evaporation-induced self-assembly of cellulose nanocrystals from aqueous suspensions into chiral nematic solid structures, April, 2018.
58. Riikka Virtanen– M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University: Towards bioengineered alginates – comparison of bacterial and algal alginates regarding gelling properties and spinnability, April 2018.

59. Vilja Kauntola– M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University: oxidative stability of emulsions with pseudo cereal protein, September, 2016.
60. Ben Jeuck (current) – M.S. Forest Biomaterials, NCSU
61. Rubina Ajdary– M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University: Fiber-based Superabsorbents, 2017.
62. Lauri Matikainen– M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University: Nanocellulose as barrier coating deposited using a laboratory rod coater, 2017.
63. Laocharoen Nikorn– M.S., Aalto Univ., Synthesis of cellulose filament for recycled fiber reinforcement, 2016.
64. Xi Chen– M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University: Paper-based plasmon-enhanced protein sensing by controlled nucleation of silver nanoparticles on cellulose, 2016.
65. Haishu Lin – M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University: Cellulose-based conductive polymers, 2015.
66. Ling Wang – M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University: Nanocellulose, Pectin and Lignin Biomimetic Composite Filaments by Wet Spinning, 2015.
67. Janika Lehtonen – M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University: Filtration Properties of Bacterial Cellulose Membranes, 2015.
68. Wenchao Xiang – M.S., Bioproducts and Biosystems, Chem. Eng, Aalto University: Silver Nanoparticles Formation on Fibres and Po-tential for Optical Sensing, 2014.
69. Miika Nikinmaa– M.Sc., Nanocellulose/ polyester composite stabilized by inter-material reactions, Forest Products Technology, Aalto University, 2013.
70. Peter Jin – M.Sc. Forest Biomaterials, NCSU: The Use of Soy Protein as a Dry Strength Additive in Papermaking, 2012.
71. Ning Wu (now with RTP, Raleigh) – M.Sc. Forest Biomaterials, NCSU: Adsorption and Diffusion of Highly Charged Cationic Polyelectrolyte into Silica Gel Particles, 2009.
72. Marianelly Esquivel Alfaro, Efecto del tratamiento térmico de fibras kraft sobre los factores que determinan la resistencia mecánica en papeles de alto desempeño, Maestría en Ciencia de los Productos Forestales, Universidad de Guadalajara, Mexico, August, 2008.
73. Chang Woo Jeong (now with Samsung, South Korea)– M.Sc. Forest Biomaterials, NCSU: Interfacial Phenomena on Polymeric Thin Films, 2006.
74. Katarina Tornqvist – M.Sc. Polymer and Fiber Science, KTH
75. Fermin Moncada – M.Sc. Pulp and Paper Eng., ULA
76. Bethsy Lezema – M.Sc. Pulp and Paper Eng. , ULA
77. Ricardo Martin (now with AVTCP) – M.Sc. Pulp and Paper Eng., ULA
78. Manuel Costero – M.Sc. Pulp and Paper Eng., ULA
79. Edgardo Araque (now with Universidad Nacional Experimental de Guayana)– M.Sc. Pulp and Paper Eng., ULA
80. Amparo Andres– M.Sc. Pulp and Paper Eng. , ULA
81. Luis Gómez – M.Sc. Pulp and Paper Eng. , ULA

82. Antonio Aguilera (now with Universidad de Los Andes) – M.Sc. Pulp and Paper Eng. , ULA

83. Franklin Salazar (now with Universidad de Los Andes) – M.Sc. Chemical Engineering, ULA