

CV

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Konrad Klockars

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Born 1990 in Helsinki, Finland



EDUCATION

- Aalto University**, School of chemical engineering Espoo, Finland
Master of technology in Chemical, Biochemical and Materials Engineering June 2018
- Major in Fibre and Polymer Engineering
 - Master's thesis: Evaporation-induced self-assembly of cellulose nanocrystals from aqueous suspensions into chiral nematic solid structures
- Bachelor of technology in Bioproduct Technology* December 2015
- Major in Renewable Materials
 - Bachelors thesis: Applications of cellulose nanocrystals
- Katholieke Universiteit Leuven** Leuven, Belgium
Exchange Semester Fall Semester 2014
- Minor in industrial waste management

WORK EXPERIENCE

- Aalto University**, Department of bioproducts and biosystems Espoo, Finland
Research assistant / Master's thesis worker February 2017 – Current position
- Cellulose nanocrystal suspensions, films and coatings.
 - Collaboration with Arts student, applying biobased structural colour in art and design.
- Nippon Paper**, Research Center Tokyo, Japan
Researcher Trainee May – August 2016
- Research project on cellulose nanofibril hydrophobization and use in composites
- UPM**, North European Research Center Lappeenranta, Finland
Researcher Trainee May – August 2015
- Research project on low consistency refining. Analyzed large amounts of data
 - Developed a pulp testing method for laboratory personnel
- Aalto University**, Department of forest products technology Espoo, Finland
Research assistant June – August 2014
- Research project on production and modification of cellulose nanocrystals.
- Stora Enso**, Inkeroinen folding boxboard mill Kouvola, Finland
Process Operator May – September 2012
- Gained insight into boxboard production at the wet and dry end through work at the winder
- Helsinki Police Department**, Immigration office Helsinki, Finland
Office Secretary October 2010 – September 2011
- Customer service work on residence permits and citizenship applications

SKILLS & ACTIVITIES

Languages: Fluent in Swedish (mother tongue), Finnish and English. Moderate in French. Basics of Spanish and Russian

IT-Skills: Good in Microsoft Office, Origin, Adobe Illustrator. Basics of Savcor Wedge, ESAComp and Comsol.

Extracurricular:

- Head of study affairs (board position) in the Forest products guild (Puunjalostajakilta ry.). I acted as a bridge between students and professors and other university staff, and actively developed courses and the studying environment.
- Student representative in the education and academic councils in Aalto University, which execute changes in courses.
- Tutor to international exchange and master's students. Helped with practical issues and introduced them to student culture. Was selected "super-tutor" for integrating Finnish and international students within the forest products guild.
- Actor and script writer in video on wood, its industrial processes and applications
<https://www.youtube.com/watch?v=4adUXwa25os&t=13s>

PUBLICATIONS AND SUBMISSIONS

Published May 2018: Klockars K W, Tardy B L, Borghei M, Tripathi A, Greca L G, Rojas O J. Effect of anisotropy of cellulose nanocrystal suspensions on stratification, domain structure formation and structural colors. *Biomacromolecules*, 19, 2931-2943.

Submitted September 2018: Klockars K W, Yau N E, Tardy B L, Majoinen J, Kämäräinen T, Miettunen K, Boutonnet E, Borghei M, Beidler J, Rojas O J. Drying flux inhomogeneities and visual design of asymmetrical coffee rings from cellulose nanocrystals. *Cellulose*.

REFERENCES

Contact information upon request

Orlando Rojas

Professor, Department of Bioproducts and Biosystems, Aalto University, Finland

Tom Hultholm

Senior Technologist, North European Research Centre, Lappeenranta, UPM, Finland

Ilari Filpponen

Assistant Research Professor, Auburn University, U.S.A.

Lucy Lewis

Research Manager, Evergreen Gas, United Kingdom