

SOOJIN KWON

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Research Experience

The Nonwovens Institute / NC State University

Raleigh, NC

Research Assistant

Aug. 2019 – present

- Investigate the biodegradation of nonwoven products and fibers.
- Understand the characteristics affecting the biodegradation.
- Identify the materials that enhance the biodegradation of current synthetic polymers used for nonwovens.

Seoul National University

Seoul, Korea

Research Assistant

Sep. 2017 – Aug. 2019

- Studied latex design and coating layer formulation for controlling coating layer consolidation and latex migration.
- Improved thermal paper quality by optimizing base paper of thermal paper and under coating.
- Studied fundamental properties for developing the coated paper as a transferring substrate for printed electronics.
- Characterized and developed the acrylate latex by suspension polymerization, and studied its application as coating binder for coated paper production

Education

Ph.D., Forest Biomaterials | North Carolina State University

expected May. 2022

M.S., Environmental Materials Science | Seoul National University

Aug. 2019

B.S., Environmental Materials Science | Seoul National University

Feb. 2017

First Author Publications

- **Soojin Kwon**, Kyudeok Oh, Sang Jin Shin, Hak Lae Lee, "Effects of Hydroxyethyl Methacrylate Comonomer in Styrene/Acrylate Latex on Coating Structure and Printability", *Progress in Organic Coatings*, (accepted).
- **Soojin Kwon**, Kyudeok Oh, Sang Jin Shin, Hak Lae Lee, "Structure changes of coating layer by styrene/acrylate latex with hydroxyethyl methacrylate", *ACS Omega*, , 4(19), 18405-18412 (2019).

Conference Presentations

- **Soojin Kwon**, Kyudeok Oh, and Hak Lae Lee, Effects of Styrene Acrylate/2-Hydroxyethyl acrylate latex on coated paper property, *Spring conference of KTAPPI*, 2019Apr. 25 – 26, Chuncheon, Korea. (oral)
- **Soojin Kwon**, Kyudeok Oh, Jee-Hong Lee, and Hak Lae Lee, Effects of HEMA content on SA latex property and its effect on coating structure, *Pan pacific fibre value chain conference*, 2018, Dec. 4-7, Rotorua, New Zealand. (oral)
- **Soojin Kwon**, Kyudeok Oh, Jee-Hong Lee, and Hak Lae Lee, Effects of Styrene Acrylate/2-Hydroxyethyl acrylate latex on coating structure, *Fall conference of KTAPPI*, 2018, Oct. 25 – 26, Jinju, Korea. (oral)
- **Soojin Kwon**, Kyudeok Oh, Jee-Hong Lee, and Hak Lae Lee, Development of patterned paper for print mottle study using thiol-ene click reaction, *Spring conference of KTAPPI*, 2018, Apr. 26 – 27, Seoul, Korea. (Poster)

Skills

Technical: DSC, TCS, SEM, TEM, CLSM, Rheology, Drying dynamics (MW-DWS), UTM, Mercury Porosimeter.

Experimental: Inorganic coating, Polymer coating, Cellulose Nanofibrils making.

Additional Experiences

- Best poster presentation award at KTAPPI.
- Training from Chromatography school seminar.
- Teaching Assistant in 4 courses for undergraduate students.
- Tutor for first-year student and international student in Seoul National University.