**Saeromi kim**

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| Relevant experience & skills |   | * Practical hands-on experience in performing *in vitro* analysis using different cell lines in asceptic environment.
* Practical hands-on experience in fabrication technologies for biomaterials such as extrusion-based 3D printer, SLA 3D bioprinter, electrospinning and femtosecond laser.
* Well trained in excellent written and verbal communication skills, independent self-motivator and a good collaborator.
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| Personal details |  | Gender: Female Languages: Native KoreanCanadian Citizen Fluent English |
| research Experience |  | MASTERS STUDENT/Researcher, KOREA INSTITUTE OF SCIENCE AND TECHNOLOGYSeptember, 2015 – August, 2017 * Developed and explored optimization of physical and biocompatible properties of bio-degrading photocurable hydrogel biomaterials with 3D bioprinter to produce vascularized scaffolds and contributed in prototype development with Biobots (now Allevi).
* Analyzed cellular behavior and conducted biological assays of human epithelial cells with customized intraocular lens to successfully control cellular characteristics to suppress development of capsular opacity disease.
* Collaborated with industrial partners and doctors/surgeons to develop the best product with research findings through a government funded research project.
* Contributed to and drafted scientific journal manuscripts and presented at numerous conferences with one best presenter award.

Summer research student, UBC Biomaterials groupApril, 2015 - August, 2015 * Assisted in developing method of analysis of corrosion and wear of failed hip implants using various metallography techniques.
* Developed PLGA electrospun fibre sheet for osteoclast cellular behaviour research.

Summer research student, UBC advanced fibrous materials laboratoryMay, 2014 - August, 2014 * Researched on potential 3D extruder material out of lignin copolymer thermoplastic.
* Researched on successfully electrospinning lignin nanofibers to produce carbonized nanofiber particles as a strengthening agent in polymer synthesis.

SUMMER RESEARCH STUDENT, UBC ADVANCED FIBROUS MATERIALS LABORATORYMay, 2013 - August, 2013* Researched on braiding electrospun drug-loaded PVA nanofibers and optimizing mechanical property to be implemented as surgical sutures.
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| Education |  | Korea Institute of science and technology, korea, masters of engineeringMajoring in Biomedical Engineering. September, 2015 - August, 2017University of british columbia, canada, bachelor of applied scienceMajoring in Materials Engineering. September, 2010 - May, 2015  |
| Awards |  | best presenter award, icmsnt 2017 conference, new zealandApril, 2017 Undergraduate Student Research Award, nserc, canadaMay, 2015 - August, 2015Undergraduate Student Research Award, nserc, canadaMay, 2014 - August, 2014Undergraduate Student Research Award, nserc, canadaMay, 2013 - August, 2013 |
| references to publications  |   | Ultrathin Metal Films with Defined Topographical Structures as In Vitro Cell Culture Platforms for Unveiling Vascular Cell Behaviors, Advanced Healthcare Materials 2016 |
| conference proceedings |  | NANokorea 2017, kyeong-gi do, south koreaJuly 2017. “Periodic nano-textured patterns on poly(HEMA) by femtosecond laser ablation to regulate cell behaviors.”Ksme spring conference 2017, pusan, south koreaMay, 2017. "Periodic nano-textured patterns on biomaterial by femtosecond laser ablation to regulate cell behaviors."KIM SPRING conference 2017, changwon, south koreaApril, 2017. "Periodic nano-textured patterns on poly(HEMA) to control cell behaviours."icmsnt 2017, auckland, new zealandApril, 2017. “Periodic nano-textured patterns on biomaterial to regulate cell behaviours”.KIM fall conference 2016, pusan, south koreaOctober, 2016. "Observation of the Effect of Micro-groove Patterned Intraocular Lens on Cell Behavior using Femtosecond Laser Lithography."ksbm international symposium 2016, seoul, south koreaSeptember, 2016. "Observation of Cell Behaviour on Micro-groove Patterned Intraocular Lens using Femtosecond Laser Lithography."KIM spring conference 2016, Kyeongjoo, south koreaApril, 2016. "Bioinspired Vascular Channel System Created by 3D Printing with Pluronic F-127 and PEGDA Hydrogel"SAMPE seattle 2014, seattle, wa, USAJune, 2014. "Mechanical Property Optimization of Electrospun Nanofiber Braids."**UBC MURC 2014, VANCOUVER, BC, CANADA**March, 2014. "Drug Loaded PVA Nanofiber Braided Surgical Sutures." |