

# DAEGYU LIM

Ph.D Candidate  
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## EDUCATION

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- **Ph.D Candidate in Transdisciplinary Studies** Mar. 2017 - Present  
*Seoul National University, Seoul, Republic of Korea*
- **BA in Mechanical and Aerospace Engineering** Mar. 2012 - Feb. 2017  
*Seoul National University, Seoul, Republic of Korea*

## PUBLICATIONS

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- Myeong-Ju Kim, **Daegyul Lim**, Gyeongjae Park, and Jaeheung Park. "Humanoid Balance Control using Centroidal Angular Momentum based on Hierarchical Quadratic Programming." *2022 IEEE/RSJ international conference on intelligent robots and systems (IROS)*. IEEE, 2022.
- **Daegyul Lim**, Donghyeon Kim, Jaeheung Park. "Online Telemanipulation Framework on Humanoid for both Manipulation and Imitation" *2022 19th International Conference on Ubiquitous Robots (UR)*. IEEE, 2022. (\*Best Application Paper Award)
- Donghyeon Kim\*, **Daegyul Lim**\*, and Jaeheung Park. "Transferable Collision Detection Learning for Collaborative Manipulator Using Versatile Modularized Neural Network." *IEEE Transactions on Robotics* (2021). (\*equal contribution)
- **Daegyul Lim**\*, Donghyeon Kim\*, Jaeheung Park. "Momentum Observer-Based Collision Detection Using LSTM for Model Uncertainty Learning." *2021 IEEE International Conference on Robotics and Automation (ICRA)*. IEEE, 2021. (\*equal contribution)
- Mingon Kim, **Daegyul Lim**, and Jaeheung Park. "Online walking pattern generation for humanoid robot with compliant motion control." *2019 International Conference on Robotics and Automation (ICRA)*. IEEE, 2019.

## AWARDS

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- **Best Application Paper Award** in the 19th International Conference on Ubiquitous Robots (UR 2022).

## SCHOLARSHIP

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- **Samsung Electronics Ph.D Student Sponsorship Program** at Device Solutions (2022. 09).
- **National Science & Technology Scholarship** (2013-2014).

## RESEARCH SKILLS

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<b>Computer Languages</b>	C/C++, Python, Matlab
<b>Simulator</b>	MuJoCo, Isaac Gym, CoppeliaSim
<b>Library</b>	Pytorch, Tensorflow, RBDL, qpOASES, Pinocchio