

# YOUNGWOOK DO

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- RESEARCH INTEREST** Tangible media interfaces that encourage better cybersecurity behaviors; Interface development using smart materials that exhibit physical transformation or/and electrical characteristics for novel sensing technology
- EDUCATION**
- Georgia Institute of Technology**, Atlanta, GA *Aug 2018 – May 2023*  
PhD Student, School of Interactive Computing  
GT SPUD Lab/Ubicomp Group. Advisor: Sauvik Das and Gregory D. Abowd
- Carnegie Mellon University**, Pittsburgh, PA *Dec 2016*  
Master of Science, Electrical and Computer Engineering
- Yonsei University**, Seoul, Korea *Feb 2015*  
Bachelor of Science, Electrical and Electronic Engineering  
Magna Cum Laude
- PUBLICATIONS**
- Conference and Journal Publications**
- [C5] Chen, C., Howard, D., Zhang, S.L., **Do, Y.**, Sun, S., Cheng, T., Wang, Z.L., Abowd, G.D. and Oh, H., 2020, February. SPIN (Self-powered Paper Interfaces) Bridging Triboelectric Nanogenerator with Folding Paper Creases. In Proceedings of the Fourteenth International Conference on Tangible, Embedded, and Embodied Interaction (pp. 431-442). [ACM DL]
- [C4] Tao, Y., **Do, Y.**, Yang, H., Lee, Y.C., Wang, G., Mondoa, C., Cui, J., Wang, W. and Yao, L., 2019, October. Morphlour: Personalized Flour-based Morphing Food Induced by Dehydration or Hydration Method. In Proceedings of the 32nd Annual ACM Symposium on User Interface Software and Technology (pp. 329-340). ACM. [ACM DL]
- [C3] Forman, J., Tabb, T., **Do, Y.**, Yeh, M.H., Galvin, A. and Yao, L., 2019, April. ModiFiber: Two-Way Morphing Soft Thread Actuators for Tangible Interaction. In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (p. 660). ACM. [ACM DL]
- [C2] An, B.\*, Tao, Y.\*, Gu, J., Cheng, T., Chen, X.A., Zhang, X., Zhao, W., **Do, Y.**, Takahashi, S., Wu, H.Y. and Zhang, T., 2018, April. Thermorph: Democratizing 4D printing of self-folding materials and interfaces. In Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (p. 260). ACM. (\* Contributed Equally) [ACM DL]
- [C1] Wang, G.\*, Cheng, T.\*, **Do, Y.**, Yang, H., Tao, Y., Gu, J., An, B. and Yao, L., 2018, April. Printed Paper Actuator: A Low-cost Reversible Actuation and Sensing Method for Shape Changing Interfaces. In Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (p. 569). ACM. (\* Contributed Equally) [ACM DL]
- Papers in Adjunct Conference Proceedings - Demos and Video Showcases**
- [D2] Tao, Y., Gu, J., An, B., Cheng, T., Chen, X.A., Zhang, X., Zhao, W., **Do, Y.**, Zhang, T., Yao, L. 2018. Demonstrating Thermorph: Democratizing 4D Printing of Self-Folding Materials and Interfaces. In *Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems* (CHI EA '18). ACM, New York, NY, USA.
- [D1] Wang, G., **Do, Y.**, Cheng, T., Yang, H., Tao, Y., Gu, J., An, B., Yao, L. 2018. Demonstrating Printed Paper Actuator: A Low-cost Reversible Actuation and Sensing Method for Shape Changing Interfaces. In *Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems* (CHI EA '18). ACM, New York, NY, USA.

[V1] Wang, G.\*, Cheng, T.\*, **Do, Y.**, Yang, H., Tao, Y., Gu, J., An, B., Yao, L. 2018. Showcasing Printed Paper Actuator: A Low-cost Reversible Actuation and Sensing Method for Shape Changing Interfaces. *In Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems (CHI EA '18)*. ACM, New York, NY, USA. (\* Contributed Equally)

AWARDS AND HONORS	<p><b>GVU Research Fall Showcase People’s Choice Award</b>, 1<sup>st</sup> Prize out of 74 teams at Georgia Institute of Technology 2019</p> <p><b>GVU Travel Grant</b>, Georgia Institute of Technology 2019</p> <p><b>IC Student Travel Grant</b>, Georgia Institute of Technology 2019</p> <p><b>Morphlour: Shape-Changing Pasta</b>, Honorable Mention in the Experimental category in Fast Company’s 2019 Innovation by Design Awards 2019</p> <p><b>Shape Changing Pasta</b>, Honorable Mention Award in Creative Food Cycles 2019</p> <p><b>Printed Paper Actuator</b>, Ars Electronica STARTS PRIZE 2018</p> <p><b>CMHL Fellowships in Digital Health</b> (declined due to program change) 2018</p>
SCHOLARSHIPS	<p><b>National Science and Engineering Undergraduate Scholarship</b> Mar 2013 - Feb 2015</p> <p><b>Yonsei University Scholarship Foundation</b> Sep 2009 - Feb 2010, Mar 2012 - Feb 2013</p>
MEDIA	<p><b>WIRED</b>, “Prepare to be Hypnotized by These Delicate Paper Robots” Aug 2018</p> <p><b>Getting Smart</b>, “NoRILLA: Mixed Reality That Improves Learning” Aug 2018</p> <p><b>Getting Smart</b>, “Montour Schools: Home of the Evolving Educators” Dec 2017</p> <p><b>Galileo TV</b>, “Die Programmierten Nudeln (The Programmed Noodles)” Sep 2017</p> <p><b>Pittsburgh Post-Gazette</b>, “Startups target underserved communities at AlphaLab's 2017 Demo Day” May 2017</p>
INVITED TALKS	<p><b>Materializing Digital Materials</b>, Guest Lecture, Texas A&amp;M University (Host: Jeeun Kim) 2019</p>
ACADEMIC SERVICES	<p><b>Reviewer</b></p> <ul style="list-style-type: none"> <li>• ACM IMWUT 2019</li> <li>• ACM CHI 2019</li> <li>• ACM UIST 2018</li> </ul> <p><b>Student Volunteer</b></p> <ul style="list-style-type: none"> <li>• ACM CHI 2019</li> </ul>
MISCELLANEOUS	<p>Woog Doe (or <del>W</del>oog Doe), Music Producer, Seoul, Korea Mar 2015 - Aug 2015</p> <ul style="list-style-type: none"> <li>• Worked as a producer, a composer, a lyricist, a vocalist, and a sound engineer</li> <li>• Published on Spotify and iTunes, as an artist name of ‘Woog Doe’ (or ‘<del>W</del>oog Doe’)</li> </ul> <p>Mar 2010 - Mar 2012</p> <p>Public Service, Seongnam Office of Education, Seongnam-si, Korea</p> <ul style="list-style-type: none"> <li>• Served an alternative service to Korean military service</li> </ul>
REFERENCES	<p><b>Sauvik Das</b>, Assistant Professor, School of Interactive Computing, Georgia Institute of Technology</p> <p><b>Gregory D. Abowd</b>, Regents’ Professor and J.Z. Liang Chair, School of Interactive Computing, Georgia Institute of Technology</p> <p><b>Lining Yao</b>, Assistant Professor, Human-Computer Interaction Institute, Carnegie Mellon University</p> <p><b>Nesra Yannier</b>, CEO, NoRILLA</p>