Stanford

Hannah Heigold

Ph.D. Student in Bioengineering, admitted Autumn 2021

Bio

HONORS AND AWARDS

- Graduate Fellow, Wu Tsai Human Performance Alliance (2024)
- Postgraduate Scholarship - Doctoral, Natural Sciences and Engineering Research Council of Canada (NSERC) (2024)
- Stanford Graduate Fellow, Vice Provost of Graduate Education (2021)

EDUCATION AND CERTIFICATIONS

- Master of Science, Stanford University , BIOE-MS (2023)
- BASc, University of Waterloo , Biomedical Engineering (2021)

Publications

PUBLICATIONS

- **StaBLE: digital metrics capture balance performance across a wide spectrum of balance tasks and abilities.** *bioRxiv : the preprint server for biology*
  Heigold, H., Ruth, P. S., Muccini, J., Lee, D., Barta, S., Rodrigues, A., Hastie, T., Steenerson, K. K., Delp, S. L.
  2026

- **Assessing jugular venous compliance with optical hemodynamic imaging by modulating intrathoracic pressure** *JOURNAL OF BIOMEDICAL OPTICS*
  Amelard, R., Flannigan, N., Patterson, C. A., Heigold, H., Hughson, R. L., Robertson, A. D.
  2022; 27 (11)

- **Sex-dependent jugular vein optical attenuation and distension during head-down tilt and lower body negative pressure.** *Physiological reports*
  Patterson, C. A., Amelard, R., Saarikoski, E., Heigold, H., Hughson, R. L., Robertson, A. D.
  2022; 10 (3): e15179

- **Optical Hemodynamic Imaging of Jugular Venous Dynamics During Altered Central Venous Pressure** *IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING*
  Amelard, R., Robertson, A. D., Patterson, C. A., Heigold, H., Saarikoski, E., Hughson, R. L.
  2021; 68 (8): 2582-2591

- **Monte Carlo Photon Migration Modeling for Assessing External Jugular Venous Dynamics**
  Heigold, H., Robertson, A. D., Patterson, C. A., Hughson, R. L., Amelard, R.
  edited by Contini, D., Hoshi, Y., OSullivan, T. D.
  SPIE-INT SOC OPTICAL ENGINEERING.2021