ALEXANDRA INGRAM

Biomechanist

MSME, FAACDP, AHFP

PHONE
(801) 410-0674

EMAIL
alex.ingram@yagroup.com

LOCATION
Salt Lake City, UT

BIOGRAPHY

Alexandra (Alex) Ingram is a Biomechanist I at YA Group with nearly a decade of experience in accident reconstruction and biomechanics. At YA Group, Alex applies the principles of biomechanics and accident reconstruction to evaluate a wide range of motor-vehicle-related and non-motor-vehicle-related incidents, including those involving pedestrians, bicycles, small aircraft, occupational hazards, motorcycles, and heavy equipment. Alex is certified by the FAA to fly drones for commercial use and is currently pursuing her ACTAR certification.

Alex has extensive experience leading and participating in novel biomechanics research, including real-time occupational hazard assessments of alpine ski instructors, the effects of auditory warnings on head injury kinematics, and hospital patient trip and fall prevention. She has also contributed to industry-sponsored research on player safety led by the National Hockey League and Major League Baseball.

Her research findings have been published in peer-reviewed scientific journals and presented at national research conferences, reflecting her commitment to advancing the field of biomechanics and accident reconstruction.

CREDENTIALS

- **MSME** | Master of Science - Mechanical Engineering
- **FAACDP** | FAA Certified Drone Pilot
- **AHFP** | Associate Human Factors Professional

PROFESSIONAL EXPERIENCE

- **2024 - Current** | Biomechanist | YA Engineering Services
- **2016 - 2020** | Coordinating Engineer / Biomechanist | ARCCA Inc.
- **2020 - 2022** | NIOSH Research Fellow | University of Utah

PRACTICES & SKILLSETS

- Slip and Fall Evaluations
- Drone Pilot
- Biomechanics
- Vehicle Electronic Data Download
- Products Liability

PUBLICATIONS AND PRESENTATIONS

- 2022 — Alex Ingram, Garret Peterson, Jansen Jones, Katherine Castro, Olose Obuhoro, Scott Collingwood, Melissa Cheng, Kenneth L. d'Entremont. "Ergonomic Assessments for Waste-Processing Workers." Abstract Booklet of the 20th Annual Utah NORA Symposium
- 2021 — Dorien Butter, Alexandra Ingram, Anna Florell, Bob Wong, Andrew Merryweather, and K. Bo Foreman. "Influence of Object Characteristics on Stability During a Perturbation." Abstract Proceedings of the 45th Annual Meeting of the American Society of Biomechanics
- 2021 — Mohammad Homayounpour, Nicholas G Gomez, Alexandra Ingram, Brittany Coats, Andrew S Merryweather. "Cervical Muscle Activation Characteristics and Head Kinematics in Males and Females Following Acoustic Warnings and Impulsive Head Forces." 2021. Annals of Biomedical Engineering.
- March 2020 — Joganich, T., Ingram, A., Meacham, C. (2020, March). "GPS Bicycle Computers: The Black Box of Bicycle Accident Reconstruction." CLM Magazine, 40.

EDUCATION

- University of Utah - Master of Science (MS) - Mechanical Engineering - Salt Lake City, Utah
- Syracuse University - Bachelor of Science (BS) - Bioengineering - Syracuse, New York

SERVICE SPECIALTIES

- **Accident Reconstruction & Biomechanics** | Accident Reconstruction, Event Data Recorder (EDR) Downloads, Vehicle Testing, Vehicle, Motorcycle & Pedestrian Accident Reconstructions, Accident Reconstruction – Litigation Support & Expert Witness, Biomechanics, Forensic

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Biomechanics, Occupant Reaction Testing, Human Factors

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