

# Active Ankle/Foot Orthotic

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**Client:**

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**Advisor:**

Professor Brenda Ogle

**Team Members:**

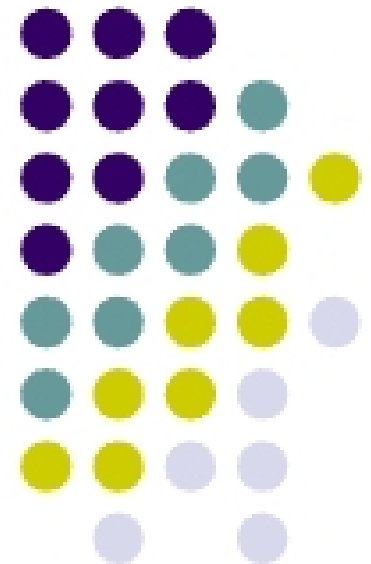
Jessica Hause - Co-leader

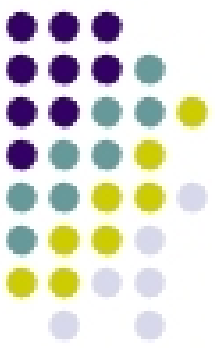
Erin Main - Co-leader

Joshua White - Communicator

Anthony Schuler - BWIG

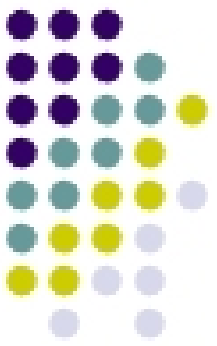
Emily Andrews - BSAC





# Presentation Outline

- Problem Statement
- Background
- Summary of PDS
- Current Orthotics
- Design Alternatives
  - Spring
  - Joint
  - Material
- Design Matrix
- Future Work
- References



# Problem Statement

- Orthotic for patients with neuropathies affecting gait
- Actively enhances forefoot propulsion
- Increases proprioception and balance
- Supports ankle weakness

Anatomy of the Foot and Ankle with Foot Drop Deformity:

