**Research Goals**

- Reduce organizations’ overreaction to supply chain risks caused by the lack of transparency
- Adopt and modify Analytic Technique of Competing Hypothesis (ACH) to quantify unstructured secondary data
- Conduct supply chain risk assessment across different countries for footwear and apparel industries

**Data Assessment Criteria**

- **Credibility**
  - High: 1.414
  - Medium: 1
  - Low: 0.707
- **Relevance**
- **Signed Consistency**
  - CC (high consistency): 2
  - C (consistency): 1
  - N (neutral): 0
  - I (inconsistency): -1
  - II (high inconsistency): -2
- **Calculation**
  - Data score = weighted signed consistency between the data and the hypothesis
  - Risk supply chain impact assessment and probability assessment are calculated based on the data scores

**Modified ACH Process**

1. **Secondary Data Collection**
2. **Model Parameters Setting**
3. **Assessment Matrices Generation**
4. **Visualized Evaluation**
5. **Hypotheses Building**

**Future Works**

- Adopt Machine Learning and Natural Language Processing techniques to imitate experts’ data assessments
- Integrate web crawler with the current platform for data collection
- Automate the risk assessment process
- Develop risk prediction model