

# September 10 2019 MQP Meeting: Paper Outline

## Paper Outline

1. Abstract
2. Introduction
3. Related Work
4. Methodology
  1. Supervised Learning for Link Prediction
  2. Network Metrics
    - Common Neighbors
    - Jaccard Coefficient
    - Resource Allocation Algorithm
    - Preferential Attachment
  3. Learning Methods
    - Logistic Regression
    - Support Vector Machines
    - Random Forest
    - Gradient Boosting
5. Data
  1. Collection via Web Scraping
  2. Visualization and Analysis with Custom-Built Application
6. Results
7. Assessment
  1. Achievement of Goals
  2. Learning Experience
8. Future Work
9. Discussion
10. References
11. Appendix: Data Analysis (Implementation Detail)
  1. Possible Pseudocode implementation

## Discuss Title

Current Title: *Journal and Conference Social Network Analysis*

Proposed: *Collaboration Recommendation via Supervised Learning for Link Prediction* or something along those lines

*Supervised Machine Learning for Network Collaboration Prediction*

Professor Rob to WW