

2023 Fall

Mentor: Zhaoxing Wu

Mentee: Elvin Liu

Directed Reading Project: Classify High-Dimensional Data

Meeting (subject to changes)

Week of 10/9: Kabacoff, R. (2015). R in Action, 2nd edition, Chapter 17 (ISBN:

9781617291388). *Manning Publications Co.* [\[link\]](#)

Week of 10/16: V. Pappu, & P.M. Pardalos. High Dimensional Data Classification. *Clusters,*

Orders and Trees: Methods and Applications. [\[link\]](#)

Week of 10/23: Lee, E.-K., & Cook, D. (2009). A projection pursuit index for large P Small N

Data. *Statistics and Computing*, 20(3), 381–392. [\[link\]](#)

Week of 10/30: Lee, E.-K., & Cook, D. (2009). A projection pursuit index for large P Small N

Data. *Statistics and Computing*, 20(3), 381–392. [\[link\]](#)

Week of 11/6: R project

Week of 11/13: R project

Week of 11/20: R project

Week of 11/27: Presentation practice

Week of 12/4 (final week): Presentation

Useful Material

1. R package classPP. [\[github link\]](#)[\[manual link\]](#)
2. Wu, Z. & Zhang, C., Assessment of Projection Pursuit Index for Classifying High Dimension Low Sample Size Data in R. *J. data sci.* 21(2023), no. 2, 310-332. [\[link\]](#)
[\[github link\]](#)