

Resources for Self-Learning Statistics (Work in Progress!)

December 10, 2018

- **Probability Theory**

- Elementary
 - Penn courses: STAT 101, STAT 111, ESE 301
- Intermediate
 - Penn courses: STAT 430
 - Textbooks: Sheldon Ross
- Advanced
 - Penn courses: MATH 546/648 / STAT 930
 - Textbooks: Rick Durrett (https://services.math.duke.edu/~rtd/PTE/PTE4_1.pdf)

- **General Statistical Inference**

- Elementary
 - Penn courses: STAT 102, STAT 112, ECON 103, ESE 302
- Intermediate
 - Penn courses: STAT 431, STAT 432, STAT 442
- Advanced
 - Penn courses: STAT 515, STAT 516, STAT 970, STAT 915, STAT 961

- **Cross-Sectional Inference and Causal Inference**

- Elementary
 - ECON 104, STAT 476, STAT 474
- Intermediate
 - Penn courses: STAT 490, ECON 222
- Advanced
 - Penn courses: STAT 520, STAT 521, ECON 705

- **Time-Series Inference and Stochastic Processes**

- Intermediate
 - Penn courses: STAT 435, STAT 433, ECON 104
- Advanced
 - Penn courses: ECON 706, STAT 910, MATH 547/649 / STAT 931

- **Statistical Learning and Data Mining**

- Elementary
 - Penn courses: STAT 470, STAT 405, STAT 422
- Intermediate
 - Penn courses: STAT 471, ECON 224, CIS 545
- Advanced
 - Penn courses: CIS 419, CIS 520