**Workshop:** Algorithmic trading with Python

**Prerequisites:** None.  This workshop is for all levels.  You will learn how to develop profitable algorithmic trading strategies and gain a career in quantitative trading. We welcome non-programmers and/or those just curious about capital markets and trading securities whether it be on the tech or research.  Please bring a laptop.

**About:**This class will teach general principles of securities trading, how to generate trading ideas and develop your own trading strategy. Also, how to actually program up that formula and/or indicator in Python. During the course you will have workshops where you can actually build program and apply it to your algorithmic trading strategy.

**Syllabus:**

|  |  |  |
| --- | --- | --- |
| **1** | Stocks and Futures advanced trading strategies |  |
| **2** | Build a program in Python to test your strategy and start live trading |  |
| **3** | Technical analysis |  |
| **4** | Applying technical indicators with Python and Matplotlib |  |
| **5** | Market timing |  |
| **6** | Building market trading systems with Python |  |
| **7** | Risk management |  |
| **8** | Back testing your strategy |  |
| **9** | Financial statement analysis |  |
| **10** | Mining financial data with Python (scraping) |  |
| **11** | Comprehensive analysis |  |
| **12** | Calculating risk and Monte Carlo stimulation with Python |  |
| **13** | Advanced Options strategies |  |
| **14** | Options pricing with Python |  |
| **15** | Generating new trading ideas |  |
| **16** | Analysis of your trading strategy and algorithms |  |