Sanghyun Park

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Education

Seoul National University

Gwanak-gu, Seoul, Korea

May. 2015 - PRESENT

CURRENTLY ATTENDING

- Statistics and Mathematics, Major GPA: 4/4.3
- Computer Science, Double major GPA: 4.12/4.3

Awards and Scholarships

KWANJEONG EDUCATIONAL FOUNDATION FULL SCHOLARSHIP DEAN'S LIST (DEPT. OF STATISTICS)

2017 - PRESENT

2016

Main interests

SHINHAN CARD CEO PRIZE

Statistical computation Arbitrary precision arithmetic, Fast matrix operation, Low-level optimization Static program analysis Hindley-Milner let polymorphism, Subtype system, Term rewriting system

Experience _____

Korea Institute of Science and Technology

Seongbuk-gu, Seoul, Korea

RESEARCH INTERN

Dec. 2019 - PRESENT

· Building generalized linear mixed model and fitting autoencoder model predicting ASSR responses.

Shinhan Card Jung-gu, Seoul, Korea

ANALYST INTERN

Dec. 2015 - May. 2016

- Implemented R-based comment crawling functionality with Facebook API.
- Built Seoul tourism recommendation system for foreigners (with SK telecom and LG CNS).
- · Prized by the firm CEO.

Phronesis Gwanak-qu, Seoul, Korea

HIGHSCHOOL STUDENT MENTOR

• Wrote stock market simulation program for student-involved economic class.

June. 2015 - Aug. 2019

Projects _____

Measure theoretic probability theory (currently working)

- · Lecture material for freshman and sophomore students of dept. of statistics and mathematics in SNU.
- · Covers point estimation and hypothesis testing theory from the perspective of measure theory.
- Key parts include measurability issue of M-estimator and approximation of LR test procedures based on LAN property due to Le Cam.

Tiny Calculator (currently working)

- Simple but high-performance numeric analysis program written in C++ with sophisticated syntax and type system.
- · Equipped with powerful type checker which detects all type errors before execution by unifying type equations.
- Also equipped with custom memory management module and optimized non-recursive parsing algorithm. (10 million expressions/sec)

My Alloc (2019)

- Memory allocation module written in C with segmented list approach.
- Marked 96/100 performance index.
- Robust to external fragmentation by 'learning' memory request trend over time.

8bit Microprocessor (2017)

- Microprocessor with 4 instructions (Add, Load, Store, Jump) and 4 registers.
- All components, registers, ALU, control unit, memory, etc are built from gate level.
- · Operates with 1Hz clock signal.