Tae Geun Kim

Graduate Student



axect.github.io



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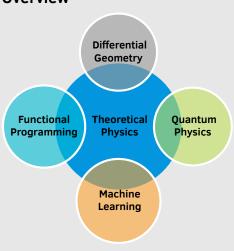
/in/tae-geun-kim



github.com/Axect

Knowledge-

Overview



Programming

 $0 LOC \longrightarrow 5000 LOC$

Rust

Go • Haskell • D

Python • Julia • Scala • R • Chapel

C • C++ • Nim • Elixir

Education -

MSc. Candidate, Physics

Specialization: Particle Physics Yonsei University 2017 - | Seoul, South Korea

BSc., Astronomy

Yonsei University

2012 - 2017 | Seoul, South Korea

Research Interests

Geometric method in mathematical physics, General relativity, Scientific computation and Machine learning for High energy physics.

Experience

Mar 2017 -Feb 2018 **Web Assistant**

College of Science, Yonsei Univ.

- Developed and maintained new web page of College of Science, Yonsei University with flask.
- · Main work: Debugging and data uploads
- · Tool: Apache, CSS, JS, Flask, MySQL

Mar 2017 -

Teaching Assistant

Yonsei Univ.

- June 2017
 TA for PHY4205-01 (Mathematical Physics(1))
 - Main work: Delivered several lectures for general relativity and Scoring
 - Adviser: Seodong Shin, Dept. of Physics, Yonsei Univ.

Mar 2016 -Feb 2017

Undergraduate Intern

Yonsei Univ.

- Studied quantum field theory, general relativity and performed several projects.
- Projects: Practice of HEP calculation tools with ϕ^4 theory Tools: MG5 aMC, CalcHep, Mathematica
- Adviser: Seong Chan Park, Dept. of Physics, Yonsei Univ.

Educational Experience

2018 Schools

 The 9th KIAS CAC Summer School on Scientific computing and Machine learning (KIAS, 26-29 June)

2017 Schools

- The first MadAnalysis 5 workshop on LHC recasting in Korea (KIAS, 20-27 August)
- 2017 Summer School on Cosmology and Particle Physics (IBS-CTPU, 7-11 August)

2016 Schools

- 2016 Winter School on Cosmology and Particle Physics (IBS-CTPU, 12-23 December)
- KIAS-QUC Winter School on Collider Physics (KIAS, 26-29 December)

2015 Schools

 Yangpyeong Particle Physics School (KIAS, 17-20 December)

Programming Projects

Sep 2018 -Peroxide Present Rust numeric library with easy syntax · Rust numeric library contains linear algebra, numerical analysis, statistics and machine learning tools with R, MATLAB, Python like macros. Tools: Rust, Cargo, Travis CI Jul 2018 -**DNumeric** Sep 2018 D numeric library with R syntax · D numeric library for linear algebra and statistical programming with R syntax. • Tools: D, dub May 2018 -**HNumeric** Jul 2018 Haskell Numeric Library with pure functionality, R & MATLAB Syntax. • Haskell numeric library implemented by pure functional paradigm. Tools: Haskell, Stack, Cabal, Travis CI and Hackage CI Jan 2018 -Hepframework Dec 2017 High Energy Physics Tools on Fedora 27 Docker container for High energy physics tools. Tools: Docker, Jupyter, Shell script

• HEP Tools: CERN-ROOT 6, MG5_aMC, CalcHEP, MicrOmegas, Opti-Mass

May 2017 -Yonsei HEP-COSMO Web page

Nov 2017

Yonsei HEP-COSMO

crates

dub

hackage

docker hub

- · Laboratory web page with Django & Linux server
- · Tools: Django, Apache, MySQL

Aug 2017 -RGE github Oct 2017 Go & Julia package to solve Renormalization Group Equation

- · Golang Package which solves RGE & generates plot with Julia.
- Tools: Go, Julia, Glide