Park, Chan Youn

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PROJECTS

Deep Learning with TensorFlow

visnet Visualization of convolutional neural networks

rl-atari Reinforcement learning with Atari games using OpenAI Gym

Scientific Python

loom Application with web UI, GUI, and multiprocessing to study supersymmetric gauge theories, presented at 2016 SciPy.

Unix/Linux Kernel & Device Driver

Development of an embedded operating system built on *NetBSD* for electronic controllers based on *Motorola Sandpoint* reference platform.

Web Search Engine Query Recommendation System

Development of a query recommendation system using query logs. Deployed to *NATE.com*, a top 3 web portal in Korea.

Administrative Interface of Database Search System

Admin UI of *Yahoo! Korea* DB search system built on PHP and MySQL

EXPERIENCE

Rutgers University, NJ, US — *Postdoctoral Fellow*

September 2014 - PRESENT

Numerical and analytic studies of theoretical & mathematical physics

Park Systems, Korea— *Research Staff*

October 2004 - December 2015

Unix/Linux system programming, hardware programming

Softwise, Korea — *Research Staff*

October 2003 - October 2004

Web programming, Linux system programming

EDUCATION

Caltech, CA, US — *Ph.D. in Physics*

October 2007 - June 2014

Theoretical physics, supersymmetric gauge theories and string theory.

Seoul National University, Korea — *B.S. in Physics*

March 2001 - August 2007

Minor in Mathematics. Summa cum laude and ranked 1st in the Department of Physics.

SKILLS

Operating Systems

Linux /Unix kernel & device driver programming

Linux web/DB server administration & application development

Windows server service application development

Multithreading & multiprocessing programming

Programming Languages

Python (◆◆◆)

C (◆◆◆)

JavaScript (◆◆◇)

PHP (◆◆◇)

C++ (◆◇◇)

Database

MySQL (◆◇◇)

MS-SQL (◆◇◇)

Softwares

National Instruments Labview & Measurement Studio

Mathematica

SageMath

PAPERS

All of the following are co-first author papers, and authors are listed in alphabetical order.

M. Gabella, P. Longhi, C. Y. Park, M. Yamazaki, BPS Graphs: From Spectral Networks to BPS Quivers
Submitted to JHEP, [arXiv:1704.04204]

P. Longhi, C. Y. Park, ADE Spectral Networks and Decoupling Limits of Surface Defects
JHEP 02 (2017) 011 [arXiv:1611.09409]

P. Longhi, C. Y. Park, ADE Spectral Networks
JHEP 08 (2016) 087 [arXiv:1601.02633]

C. Y. Park, 2d SCFT from M-branes and its spectral network
Proceedings of String-Math 2013, Proceedings of Symposia in Pure Mathematics [arxiv:1401.2207]

K. Maruyoshi, C. Y. Park, W. Yan, BPS spectrum of Argyres-Douglas theory via spectral network
JHEP 12 (2013) 092 [arXiv:1309.3050]

K. Hori, C. Y. Park, Y. Tachikawa, 2d SCFTs from M2-branes
JHEP 11(2013)147 [arXiv:1309.3036]

C. Y. Park, Ramification Points of Seiberg-Witten Curves
JHEP 07 (2011) 068 [arXiv:1102.0288]

SELECTED LIST OF INVITED TALKS

Jul. 2016, A String Theorist's Journey with Python, SciPy 2016, US

Apr. 2016, Supersymmetric Spectroscopy with Spectral Network, Perimeter Institute

Mar. 2016, Supersymmetric Spectroscopy with Spectral Network, Imperial College London

Nov. 2014, BPS spectra of supersymmetric theories, University of Texas at Austin

Jun. 2013, 2d SCFT from M2-branes, String-Math Conference 2013, US

Aug. 2011, Origami of a Gaiotto Curve from a Seiberg-Witten Curve, McGill University

SCHOLARSHIPS AND AWARDS

Samsung Scholarship (2007 ~ 2012)

Academic Excellence Scholarship, Seoul National University (2001~2007)

GE Scholarship, General Electric Foundation (2003 ~ 2007)

Korea Foundation for Advanced Studies (KFAS) Scholarship (2002 ~ 2007)

Silver Medal in the 31st International Physics Olympiad (2000)