

SANGJUN SON

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RESEARCH INTERESTS

Machine Learning, Data Mining, Tensor Analysis

EDUCATION

Seoul National University, *Seoul, Republic of Korea* Mar. 2016 - Present
Candidate for B.S. in Computer Science and Engineering
Interdisciplinary Major in Entrepreneurship

Daegu Science High School, *Daegu, Republic of Korea* Mar. 2013 - Feb. 2016

PUBLICATIONS

Dawon Ahn, **Sangjun Son**, and U Kang,
“**Gtensor: Fast and Accurate Tensor Analysis System using GPUs**,”
29th ACM International Conference on Information and Knowledge Management (CIKM) 2020, Virtual Event, Ireland

Sangjun Son*, Yongchan Park*, Minyong Cho, and U Kang,
“**DAO-CP: Data-adaptive online CP decomposition**,” *make publicly available*, (* Both authors contributed equally to this work)

RESEARCH EXPERIENCES

Data Mining Laboratory, *Seoul National University* Nov. 2019 - Present
Research Internship (Advisor: Prof. U Kang)

- **Gtensor**, **BIGtensor**: Accelerated large-scale tensor analysis on heterogenous system
- **DAO-CP**: Enhanced accuracy for CP decomposition of time-evolving tensors by a data-adaptive algorithm

Real-Time Ubiquitous Systems Laboratory, *Seoul National University* Jul. 2017 - Feb. 2018
Research Internship (Advisor: Prof. Chang-Gun Lee)

- Implemented simulation to study effects of AED delivery using unmanned vehicle transport technology on defibrillation in out-of-hospital cardiac arrest

WORKING EXPERIENCES

Google Software Engineering Intern, *Google Korea LLC., Desktop Search Team* Jun. 2021 - Sep. 2021
Automatic I2F and Nesting config generation for hOSRP to diOSRP conversion
Designed an internal development tool for efficient development in OSRP migration

TEACHING EXPERIENCES

International Students Integrated Peer Tutoring Program, *Undergraduate Student Tutor* Spring. 2021
Data Structures & Algorithm Fundamentals, SNU Gwanak Residence Halls

Digital Computer Concept and Practice, *Lab Class Lecturer* Fall. 2020
Introduction to Python and Its Application, Dept. of Computer Science and Engineering

Basic Computing: First Adventures in Computing, *Teaching Assistant* Fall. 2020
Python Basics, SNU Faculty of Liberal Education

Basic Calculus 1, *Undergraduate Student Tutor* Spring. 2020
TA Office of the Department of Mathematical Sciences

SOFTWARE

BIGtensor , <i>Contributor of BIGtensor-GPU and Hadoop</i>	Nov. 2019 - Feb. 2021
Tensor mining packages for large-scale tensor analysis	
Drone Transfer Simulator	Jul. 2017 - Feb. 2018
Simulation of AED drone delivery to defibrillation for patients with out-of-hospital cardiac arrest	

COURSE PROJECTS

Deep learning-based wrinkle detection , <i>Morpheus3D</i>	Fall. 2020
Built new models to segment wrinkle parts in 3D scanned face images by exploiting state-of-art methods	
ABC , <i>Art with Block-Chain: media-art platform</i>	Spring. 2020
Designed a platform where any creator can upload their own media arts and increase profits	
Implemented smart contract on ERC-721 token, which records its metadata and p5.js-based content on blockchain	
BusyWrite , <i>Team writing solution to accelerate collaboration</i>	Fall. 2017
Implemented a concept of a unit of thought that users write on, called <i>Bubble</i> , and enabled users to write simultaneously and merge after resolving conflicts	

SKILLS

Programming Languages	C++, Python, Java, MATLAB, Scala, Solidity, R (Welcome to any languages)
Frameworks	PyTorch, Tensorflow, React, AngularJS, Django
	OpenCL, OpenGL, Hadoop, MFC

HONORS and AWARDS

Merit-based Scholarship (full amount) , <i>Seoul National University</i>	Fall. 2020 - Spring. 2021
SNU Development Fund Scholarship , <i>Seoul National University</i>	Spring. 2017 - Fall. 2017
Korea Olympiad in Informatics , <i>National Programming Contest for High School Students</i>	May. 2015
Silver medal (the 3rd place)	

EXTRA-CURRICULAR ACTIVITIES

WD Partners , <i>Consulting Firm providing indoor ventilation solution</i>	Jun. 2021 - Now
Theoretically found conditions with the most optimal ventilation efficiency through CFD (Computerized Fluid Dynamics) analysis for pollutants like (e.g., fine dust and droplets containing viruses)	
Built a prototype device using Coanda effect for real-world validation	
Problem Solving in SNU , <i>Study group for preparing problem-solving interview</i>	Jun. 2021 - Now
Opened weekly practices and workshops to share and learn skills and strategies with each other	
Decipher , <i>Blockchain Research Group in Seoul National University</i>	Mar. 2020 - Aug. 2020
Attended weekly seminars about various blockchain topics as a member of StuDeFi	
Designed a donation platform, AID-U for contributing student education expenses	
Paik's Beer	Dec. 2019 - Mar. 2020
Served beer and snacks as a part-time job after school	
Republic of Korea Army , <i>Obligatory Military Service</i>	Feb. 2018 - Oct. 2019
Discharged on full-term military service	
Occupational specialty: administration, communication equipment operation, chaplaincy	
KASTTC , <i>Table Tennis Club</i>	Dec. 2016 - Dec. 2017
Conducted lessons to improve the skills of members, managed participating competitions, and supervised weekly training as a club's trainer	