

# JUN-GI JANG

---

CONTACT	Data Mining Laboratory Building 301 #551-1 Seoul National University 1, Gwanak-ro, Gwanak-gu, Seoul Republic of Korea 08826	Phone: +82-2-880-7263 Email: <i>elnino4 (at) snu.ac.kr</i> Homepage: <a href="https://jungijang.github.io/">https://jungijang.github.io/</a>
EDUCATION	<b>M.S/Ph.D Student</b> Computer Science and Engineering Seoul National University <i>Advisor: U Kang</i>	MAR. 2017 - PRESENT
	<b>Bachelor of Science</b> Mechanical and Aerospace Engineering, Computer Science and Engineering (double major) Seoul National University	MAR. 2010 - FEB. 2017
RESEARCH INTERESTS	<b>Tensor Analysis, Time Series Analysis</b>	
PUBLICATIONS	<b>Conferences</b> C5. <b>Jun-Gi Jang</b> and U Kang, “Fast and Memory-Efficient Tucker Decomposition for Answering Diverse Time Range Queries”, The 27th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2021, Virtual Event. Best Paper Award, Best Research Paper. C4. Yong-chan Park, <b>Jun-Gi Jang</b> , and U Kang, “Fast and Accurate Partial Fourier Transform for Time Series Data”, The 27th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2021, Virtual Event. C3. Moonjeong Park*, <b>Jun-Gi Jang</b> *, and Lee Sael, “VEST: Very Sparse Tucker Factorization of Large-Scale Tensors”, IEEE International Conference on Big Data and Smart Computing (BigComp), 2021, Online. (* equal contribution) Best Paper Award, 1st Place. C2. <b>Jun-Gi Jang</b> and U Kang, “D-Tucker: Fast and Memory-Efficient Tucker Decomposition for Dense Tensors”, 36th IEEE International Conference on Data Engineering (ICDE), 2020, Online. C1. <b>Jun-Gi Jang</b> , Donjin Choi, Jinhong Jung, and U Kang, “Zoom-SVD: Fast and Memory Efficient Method for Extracting Key Patterns in an Arbitrary Time Range”, ACM International Conference on Information and Knowledge Management (CIKM), 2018, Lingotto, Turin, Italy.  <b>Journals</b> J2. Dongjin Choi, <b>Jun-Gi Jang</b> , and U Kang, “S3CMTF: Fast, accurate, and scalable method for incomplete coupled matrix-tensor factorization”, PLOS ONE, June 28, 2019. [Paper link] J1. Sejoon Oh, Namyong Park, <b>Jun-Gi Jang</b> , Lee Sael, and U Kang, “High-Performance Tucker Factorization on Heterogeneous Platforms”, IEEE Transactions on Parallel and Distributed Systems, Apr. 1, 2019. [Paper link]	

## PATENTS

### Patents

- P6. **Jun-Gi Jang** and U Kang, Apparatus and Method for Tensor Analysis (filed on Jul. 2021).
- P5. Yongchan Park, **Jun-Gi Jang** and U Kang, Fast Partial Fourier Transform Method and Computing Apparatus for Performing the Same (filed on Apr. 2021).
- P4. Dawon Ahn, **Jun-Gi Jang** and U Kang, Method for Tensor Decomposition with Temporal Dependency and Apparatus Therefor (filed on Mar. 2021).
- P3. **Jun-Gi Jang** and U Kang, Method for Decomposing Tensor and Apparatus for Performing the Same (filed on Sep. 2020).
- P2. Donjing Choi, **Jun-Gi Jang**, and U Kang, Data Analysis Method and Apparatus for Sparse Data (registered on Mar. 2020).
- P1. **Jun-Gi Jang**, Dongjin Choi, and U Kang, Apparatus and Method for Processing Data (registered on Jan. 2020).

## AWARDS & HONORS

- Best Paper Award, Best Research Paper**, KDD 2021
- Best Paper Award, 1st Place**, BigComp 2021
- Lecture/Research Scholarship**, Seoul National University MAR. 2019 - PRESENT
- Humantech Paper Award (Honorable Mention, lead-author)**, Samsung FEB. 2018

## WORK EXPERIENCE

- Research Intern**, HYPERCONNECT JUL. 2020 - AUG. 2020

## TALKS

### Talks

- 1. Zoom-SVD: Fast and Memory Efficient Method for Extracting Key Patterns in an Arbitrary Time Range, NC Soft, Jan. 2019

## TEACHING EXPERIENCE

- Lead T.A.**, M2177.004900 Theory and Lab of IoT, AI, and Big Data @ SNU SPRING 2020
- T.A.**, M2177.004900 Theory and Lab of IoT, AI, and Big Data @ SNU FALL 2019
- T.A.**, M2177.004900 Theory and Lab of IoT, AI, and Big Data @ SNU SPRING 2019
- T.A.**, M1522.001400 Introduction to Data Mining @ SNU SPRING 2018
- T.A.**, M1522.000900 Data Structure @ SNU FALL 2017

## GRADUATE COURSEWORK

- M2177.003000 Advanced Data Mining @ SNU FALL 2019
- 4190.676 Artificial Neural Networks @ SNU FALL 2019
- 3394.506 Advanced Numerical Linear Algebra @ SNU SPRING 2019
- M1522.002500 Quantum Computing and Information Fundamentals @ SNU SPRING 2019
- 430.502 Industrial Applications of Electrical and Electronic Technologies @ SNU FALL 2018
- 430.709A Convex Optimization @ SNU FALL 2018
- 4190.771 Topics in Algorithms (ML algorithms in bioinformatics) @ SNU FALL 2018
- 430.707A Pattern Recognition @ SNU SPRING 2018
- 4190.771 Topics in Algorithms (Compression) @ SNU SPRING 2018
- M1522.001600 Topics in Big data Analytics @ SNU FALL 2017
- M1522.000500 Information Visualization and Visual Analytics @ SNU FALL 2017
- 430.707A Advance Databases @ SNU SPRING 2017
- M1522.001600 Topics in Big data Analytics @ SNU SPRING 2017