



김 영 진 (in Korean)

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## RESEARCH INTERESTS

Game Theory, Social Dilemma, Evolutionary Dynamics, Social Network Analysis, Big data Analysis

## EDUCATION

HANYANG UNIVERSITY, Ph.D. Candidate in Applied Physics Mar. 2013 - present

Advisor: Dr. Seung-Woo Son

HANYANG UNIVERSITY, B.S. in Applied Physics Mar. 2006 - Feb. 2013

Bachelor of Business Administration (double majors)

Korean military service (Jan. 2008 - Dec. 2009)

## EXPERIENCE

Research Assistant, HANYANG UNIVERSITY, KOREA Mar. 2015-present

Teaching Assistant, HANYANG UNIVERSITY, KOREA Mar. 2013-Dec. 2014

## HONERS & AWARDS

Best award, [The 8<sup>th</sup> KIAS CAC Summer School](#) (Seoul, Korea)

Jul. 2017

Competition Award, 4<sup>th</sup> [Bigcontest](#) (Seoul, Korea)

Oct. 2016

Best award, [2016 NIMS-SKKU Big data Summer School](#) (Jeju, Korea)

Jul. 2016

Best poster award, [The 2015 KPS spring conference](#) (Daejeon, Korea)

Apr. 2015

Scholarly award, College of Science and Technology, Hanyang University

Dec. 2013

Best poster award, The 2013 KPS autumn conference (Changwon, Korea)

Nov. 2013

Best poster award, The 2013 KPS spring conference (Daejeon, Korea)

Apr. 2013

## SPECIALITY & SKILLS

- C and C++ programming language for numerical simulations of statistical physics problems and data pre-processing
- Python programming language for data analysis and visualization
- Scraping (crawling) for data collecting with python
- Gephi / D3.js for network visualization
- Master of presentation programs such Powerpoint and Prezi
- Management of Linux system and Windows applications
- Good at using Photoshop and other image processing programs
- Amateur boxer, music performer (playing guitar and djembe, singing :)

## REVIEWED PUBLICATIONS

1. Y. J. Kim, Y.-J. Park, and S.-W. Son\*,  
“Effect of the mobility on iterated prisoners’ dilemma game with reputation-based-  
strategy”,  
in preparation (2016).
2. Y. J. Kim, Y. Kim, S.-W. Son\*, and B. M. Weon\*,  
“Symmetric distribution in the last digits of the prime numbers”,  
in preparation (2015).
3. Y. J. Kim, M. Roh, S.-Y. Jeong, and S.-W. Son\*,  
“Fine phase structures in the payoff space of iterated prisoners’ dilemma games”,  
in preparation (2015).
4. Y. J. Kim, M. Roh, S.-Y. Jeong, and S.-W. Son\*,  
“[Dynamics Motifs of Strategies in Prisoner’s Dilemma Games](#)”,  
J. Korean Phys. Soc. **65**, 11 (2014) [arXiv:1412.5245](#).
5. Y. J. Kim, M. Roh, and S.-W. Son\*,  
“[Network Structures between Strategies in Iterated Prisoners’ Dilemma Games](#)”,  
J. Korean Phys. Soc. **64**, 341 (2014) [arXiv:1403.1048](#).

## PRESENTATIONS

1. "Network Analysis using K-POP lyrics",  
The 19<sup>th</sup> Workshop for Statistical Physics (Mungyeong, Korea, Aug. 29, 2017)
2. "K-POP genre prediction using CNN",  
The 8<sup>th</sup> KIAS CAC Summer School (Seoul, Korea, Jul. 5, 2017)
3. "Machine learning based insurance fraud forecast",  
4<sup>th</sup> Bigcontest, (Seoul, Competition, Oct. 20, 2016)
4. "Effect of the mobility on iterated prisoners' dilemma game with reputation-based-strategy",  
NSPCS16 (Hoegi, poster, Jul. 4, 2016)
5. "Composer network using morphological analysis of K-POP lyrics",  
2016 NIMS-SKKU MDA-TDA Summer school (Jeju, oral, Jul. 2, 2016)
6. "Structure of player-interaction networks on iterated prisoners' dilemma game with mobility",  
NetSci 2016 (Seoul, poster, Jun. 1, 2016)  
KPS 2016 Spring conference (Daejeon, poster, Apr. 21, 2016)
7. "Mobile prisoners' dilemma game with reputation",  
KPS 2015 Autumn conference (Gyeongju, oral, Oct. 22, 2015).
8. "How does reputation affect spatial prisoners' dilemma game?",  
The 18<sup>th</sup> Workshop for Statistical Physics (Jeonju, oral, Aug. 21, 2015).
9. "Network analysis of iterated prisoners' dilemma games with a single step memory",  
Granada Seminar on Computational and Statistical Physics (Granada, June 15, 2015)
10. "Symmetric distribution in the last digits of prime numbers",  
KPS 2015 Spring conference (Daejeon, poster, Apr. 23, 2015).
11. "Diverse network structures of strategies in iterated prisoners' dilemma games",  
Application of Econophysics and Social Physics : Summer Workshop (Incheon, oral, Aug. 21, 2014).
12. "Fine phase structures (Network analysis) of iterated prisoners' dilemma games",  
KPS 2014 Spring conference (Daejeon, poster, Apr. 23, 2014).  
KIAS 2014 Summer School on Active Systems (Gwangju, oral, June 22 - July 4, 2014).  
The 6<sup>th</sup> Conference on Statistical Physics NSPCS 2014 (KIAS, poster, July 8 - 11, 2014).
13. "Analysis of win-lose circulations between strategies in iterated prisoners' dilemma game",

The 17<sup>th</sup> Workshop for Statistical Physics (Tongyeong, oral, Oct. 31 - Nov. 3, 2013)  
KPS 2013 Autumn conference (Daejeon, poster, Oct. 24, 2013).

14. "Iterated prisoners' dilemma game with a limited memory",  
KPS 2013 Spring conference (Daejeon, poster, Apr. 24, 2013).

## REFERENCES

### **Dr. Seung-Woo Son**

Assistant Professor

Department of Applied physics, Hanyang University  
Ansan-si, Gyeonggi-do, KOREA (426-791)

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### **Dr. Beom Jun Kim**

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### **Dr. Sang Hoon Lee**

Research Professor

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