



# Social Computing Lab

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**김민경 교수 연구실**  
**경희대학교 빅데이터응용학과**

Minkyung Kim  
Department of Big Data Analytics  
Kyung Hee University

# Introduction – Minkyung Kim



[Email]: [minkkim@khu.ac.kr](mailto:minkkim@khu.ac.kr) [Home]: [www.minkyung.kim](http://www.minkyung.kim)

## Education

- PhD, The Australian National University, Australia
  - [Major]: [Engineering & Computer Science](#)
- MS, University of Southern California, USA
  - [Major]: [Computer Science](#)
- BS, Ewha Womans University, South Korea
  - [Major]: [Computer Science](#)



## Selected Professional Careers

- Assistant Professor, Dept of Big Data Analytics, **Kyung Hee University**, South Korea (2022–Present)
- Assistant Professor, Dept of AI & SW Technology, **Sunmoon University**, South Korea (2019–2022)
- Postdoctoral/Adjunct Research Fellow, Data61, **CSIRO**(호주국립과학산업연구원), Australia (2016–2019)
- Postdoctoral Research Fellow, Computer Science Department, **Stanford University**, USA (2015–2016)
- Manager, Intelligence Lab, **SK Telecom**, South Korea (2006–2010)
- Research Scientist, Software Robot Team, **ETRI**(한국전자통신연구원), South Korea (2005–2006)
- Research Scientist, Digital Media Lab, **Samsung Electronics**, South Korea (2004–2005)

# Introduction – Minkyoung Kim

## Selected Honors and Awards

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- Teaching Excellence Award, Sunmoon University, South Korea, 2021
- Finalist in the Eureka Prize for Excellence in Interdisciplinary Scientific Research, Australia, 2019



[Links]

- [Project description](#)
- [News media coverage](#)

- Complex Systems Science Overseas Research Grant, CSIRO, Australia, 2013
- Full PhD Scholarship (Top 5%), The Australian National University, Australia, 2011–2014
- Outstanding Academic Achievement Award, University of Southern California, US, 2004
- 1<sup>st</sup> Prize Winner at Software Competition, LG Electronics, South Korea, 2003

## Teaching Experiences

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### AI

- Artificial Intelligence
- Machine Learning Basics
- Machine Learning Advanced

### Social Networks

- Social Network Science
- Network Science and Applications
- Social and Information Networks

### Software

- Big Data Programming I, II
- Software Projects I, II, III
- Programming with Python I, II

# Research Projects

Research projects have covered representative application domains in the real world.

## Public Health

Inferring latent influence of regions and causal pathways in infectious disease spread

## Social Media

Uncovering mechanisms topic-sensitive information diffusion over social networks

## Scientific Innovation

Predicting citation volumes and estimating academic affinity across STEM fields

## Telecommunications

Proposing strategic marketing and advertisement based on mobile phone networks

## Interdisciplinary Research

Machine Learning

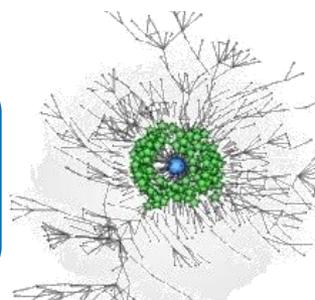
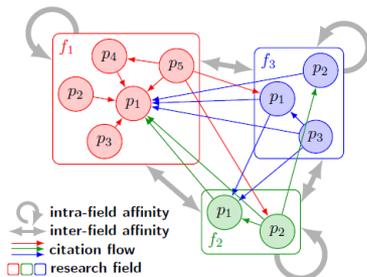
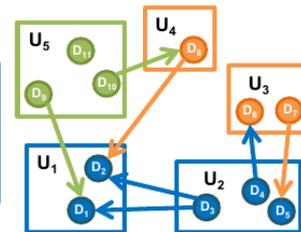
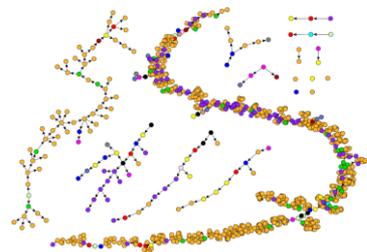
Social Media Analytics

Computational Linguistics

Statistical Physics

Applied Mathematics

Applied Statistics



# Research Topics (not limited to)

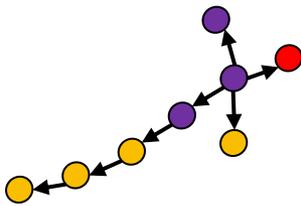
## Business Applications

Advertisements, Marketing, Content Providers, Social Networking Services, E-Commerce, etc.

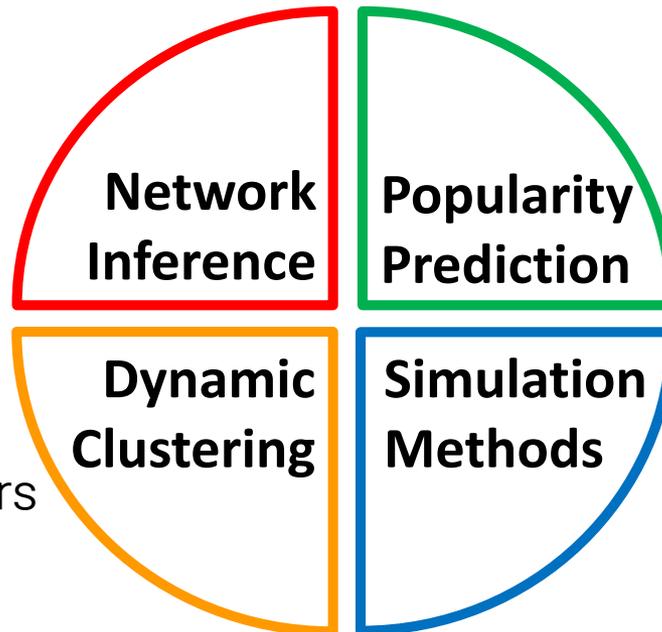
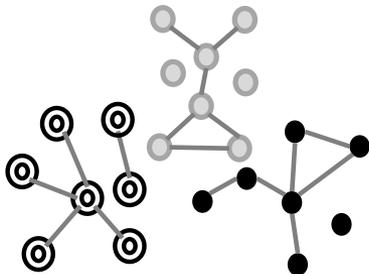
## Strategy Improvements

Timely Control, Efficient Resource Allocation, Investment Planning, etc.

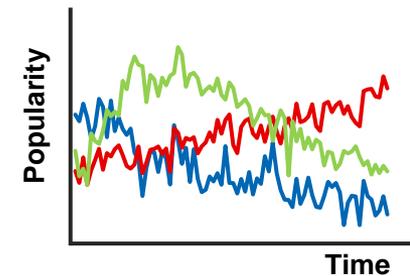
- Inferring causal relationships



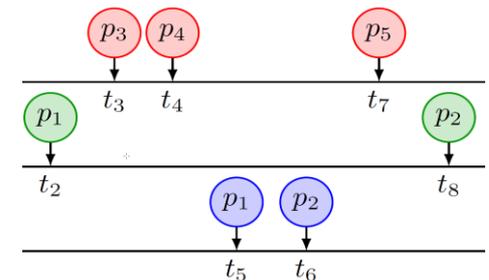
- Identifying time-evolving meta clusters



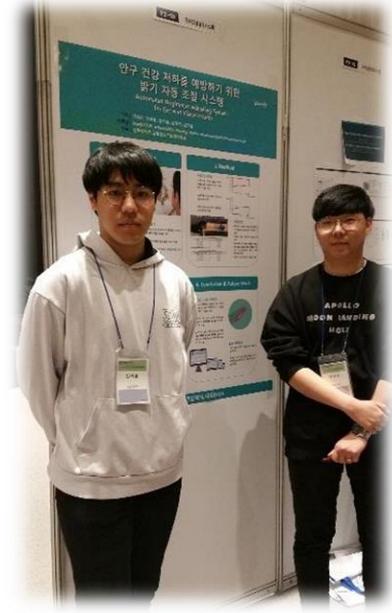
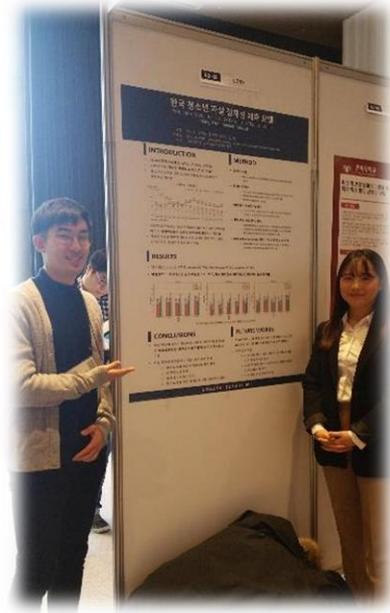
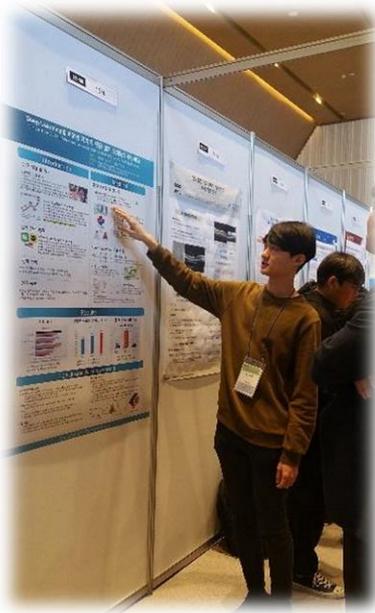
- Predicting popularity growth of individual items



- Modeling spatio-temporal processes in the real world



# Supervision of Student Research Projects



제20-789호

**상 장**

학부생부문 최우수상  
 제목: 영상인식 기반 자세교정 시스템  
 저자: 임윤지·에다카츠토시·황석형·김응희·김수환

위 논문은 「2020 한국컴퓨터종합학술대회 학부생/주니어 논문경진대회」에서 위와 같이 입상하였기에 이 상을 수여함.

2020년 8월 10일

한국정보과학회  
 회장 김두현

제22-500호

**상 장**

학부생부문 장려상  
 제목: 색각 이상자를 위한 딥러닝 기반 색상인식 시스템  
 저자: 이혜민·이기영·테라오카 유이카·김민경

위 논문은 「2021 한국소프트웨어종합학술대회 학부생/주니어 논문경진대회」에서 위와 같이 입상하였기에 이 상을 수여함.

2022년 2월 3일

한국정보과학회  
 회장 심규찬

제20-835호

**상 장**

학부생부문 장려상  
 제목: 번호판 검출 및 모델인식 기반 차량 출입 관리시스템  
 저자: 방재호·황석형·김응희·김수환·김민경

위 논문은 「2020 한국컴퓨터종합학술대회 학부생/주니어 논문경진대회」에서 위와 같이 입상하였기에 이 상을 수여함.

2020년 8월 10일

한국정보과학회  
 회장 김두현

제 2020-177호

제4회 4차 산업혁명 인재양성 연합페스티벌

**상 장**

논문 및 코딩부문 최우수상  
 이름: 이기영, 테라오카 유이카

위 사람은 대학 링크플러스(LINC+)사업단과 한국정보통신보안윤리학회가 개최한 4차 산업혁명 인재양성 연합 페스티벌 공모전에서 창의적이고 탁월한 아이디어를 제시하였기에 이 상장을 수여합니다.

2020년 11월 27일

사단법인 한국정보통신보안윤리학회  
 회장 손연기

# Contact – SoCom (Social Computing) Lab

- Professor

- Minkyung Kim (김민경 교수)

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    - [Home]: [www.minkyung.kim](http://www.minkyung.kim)

- Lab Representative Student

- Hyunkeun Oh (오현근): 경영학과 대학원 빅데이터경영전공 석사과정

- [Email]: [ohhyunkeun@khu.ac.kr](mailto:ohhyunkeun@khu.ac.kr)

**Thank you!**