

Kibum Moon

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RESEARCH INTEREST

Happiness, well-being, emotions, close relationships, data science, reverse correlation, psychological measurements

EDUCATION

Korea University	Sep. 2015 – Feb. 2018
M.A. in Clinical and Counseling Psychology	Seoul, Korea
Thesis title: The Effect of Implicit Attitude Toward a Partner on Relationship Satisfaction and Relational Conflict	
Advisor: Young-gun Ko, Ph.D.	
Cumulative GPA: 4.0 / 4.0	
Korea University	Mar. 2009 – Feb. 2015
B.A. in Psychology	Seoul, Korea
B.A. in Science Technology Studies (double major)	
Cumulative GPA: 3.91 / 4.0	
University of New South Wales	Feb. 2014 – May 2014
Exchange student in the School of Psychology	Sydney, Australia

PUBLICATIONS

1. **Moon, Kibum**, Kim, J., Lee, J. (*in press*) The Early Prediction Model of Student Performance Based on Deep Neural Network Using Massive LMS Log Data. *Journal of the Korea Contents Association*.
2. **Moon, Kibum**, Kim, S., Kim, J., Kim, H., & Ko, Y. (2020). The Mirror of Mind: Visualizing Mental Representations of Self Through Reverse Correlation. *Frontiers in Psychology*, 11, 1149. doi: [10.3389/fpsyg.2020.01149](https://doi.org/10.3389/fpsyg.2020.01149)
3. Lee, J., **Moon, Kibum**, Han, S., Lee, S., Kwon, H., Han, J. (2021) Development and Application of an AI-Powered Adaptive Course Recommender System in Higher Education: An Example from K University. *Journal of Educational Technology*. doi: [10.17232/KSET.37.2.267](https://doi.org/10.17232/KSET.37.2.267)
4. Kim, S., **Moon, Kibum**, Kim, J., & Ko, Y. (2020). The Relationship Between Borderline Personality Features and Affective Responses to Altering Emotional Context. *Current Psychology*. doi: [10.1007/s12144-020-01077-5](https://doi.org/10.1007/s12144-020-01077-5)
5. Kim, J., **Moon, Kibum**, & Ko, Y. (2020). A Validation of the Korean Version of Adolescent Positive Mental Health Scale. *Korean Journal of Health Psychology*, 25(4), 823-834. doi: [10.17315/kjhp.2020.25.4.012](https://doi.org/10.17315/kjhp.2020.25.4.012)
6. Lee, S., **Moon, Kibum**, & Ko, Y. (2019). The Effects of Ego Depletion and Psychological Burden on Fatigue in Everyday Life: Focusing on Narcissism. *Korean Journal of Clinical Psychology*, 38(1), 60-69. doi: [10.15842/kjcp.2019.38.1.005](https://doi.org/10.15842/kjcp.2019.38.1.005)
7. Back, I., **Moon, Kibum**, & Ko, Y. (2019). A Validation Study of Mental Health Two-Factor Model: In a Sexual Minority Population. *The Korean Journal of Woman Psychology*, 24(4).

PATENTS

1. **Moon, Kibum**, Lee, J., Lee, S., Han, S., Kwon, H., Han, J., Kim, G.T. (2021). System and Method for Recommendation of Course Based on Course Similarity and Computer Program for the Same. Application Number: 10-2021-0042245.
2. **Moon, Kibum**, Lee, J., Lee, S., Han, S., Kwon, H., Han, J., Kim, G.T. (2021). System and Method for Recommendation Major Based on Keywords of Interests by Users and Computer Program for the Same. Application Number: 10-2021-0064780

MANUSCRIPTS UNDER REVIEW & IN PREPARATION

1. Kim, J., **Moon, Kibum**, Kim, S., Kim, H., & Ko, Y. (*under review at Journal of Personality*) The Relationship between Mental Representations of Self and Social Evaluation: Examining the Validity and Usefulness of Visual Proxies of Self-Image.
2. Kim, H., Kim J., **Moon, Kibum**, Jeong, J., Ko, Y. (*preparing to submit again*) Effects of Communal Narcissism and Altruism on Psychosocial Maturity.
3. Min, H., Kim, J., **Moon, Kibum**, Kim, S., Kim, J., Ko, Y. (*preparing to submit again*) Development and Validation of COVID-19 Impact Scale.
4. **Moon, Kibum**, Lee, H., & Ko, Y. (*preparing to submit again*) Implicit Accommodation to an Angry Romantic Partner: Effects on Romantic Relationship Persistence.

CONFERENCE PRESENTATIONS

1. **Moon, Kibum** (2020). The Impact of COVID-19 on Quality Education: Focusing on Online Learning. Oral presentation at the 3rd KU Innovation Forum, Seoul, Republic of Korea
2. **Moon, Kibum** & Ko, Y. (2018). Facial Expression Accommodation Predicts Quality and Durability of Romantic Relationships. Poster presentation at the 30th APS Annual Convention, San Francisco, CA. U.S.
3. **Moon, Kibum**, Kim, H., Kim, S., Lee, C., & Ko, Y. (2017). Validation Study of the Korean version of the Balanced Index of Psychological Mindedness. Poster presentation at the 2017 Fall Conference of Korean Clinical Psychology Association, Seoul, South Korea
4. Kim, S., Kim, J., **Moon, Kibum**, Kang W., Ko, Y. (2021). The Relationship between Meta-emotion and Mental Health. Poster presentation at the 2021 Spring Conference of Korean Clinical Psychology Association, Seoul, South Korea
5. Kim, D., Shin, W., Han., K., Lee, J., **Moon, Kibum**, Lee, S., Han, S., Han, S. (2020). A system for recommending university liberal arts courses using collaborative filtering. Short Paper at the 2020 Fall Conference of Korean Institute of Industrial Engineers, Seoul, South Korea
6. Kim, H., **Moon, Kibum**, Kim, J., & Ko, Y. (2020). The Relationship Between Communal Narcissism and Altruism. Poster presentation at the 2020 Fall Conference of Korean Clinical Psychology Association, Online
7. Kim, J., **Moon, Kibum**, Kim, S., & Ko, Y. (2020). Clinical Usefulness of Visualizing Mental Representations of Self through Reverse Correlation Method to Assess Depression and Anxiety. Poster presentation at the 32nd APS Annual Convention, Chicago, IL, U.S.
8. Kim, J., **Moon, Kibum**, Park, J., Kim, S., & Ko., Y. (2020). The Relationship Between Mental Health and Belongingness Orientation of the Homeless. Poster presentation at the 2020 Spring Conference of Korean Clinical Psychology Association, Online
9. Lee, J., **Moon, Kibum**, Lee, S., Han, S., Han, J., & Kwon, H. (2019). Convergence in University Interdisciplinary Education. Oral presentation at 2019 Korea Academy of Complexity Studies, Seoul, Republic of Korea
10. Park, K., Jung, S., **Moon, Kibum**, Pyo, S., & Choi, K. (2016). Empirically Supported Treatments in Korea. Oral presentation at the 2016 Spring Conference of Korean Clinical Psychology Association, Chuncheon, Korea

SCHOLARSHIPS

Research Assistance Scholarship	2015
Department of Psychology, Korea University	– 2017
Full tuition for 4 semesters (\$23,600)	
*A merit-based scholarship awarded for students who have excellent research potential and actively contribute to the academic development of the department	
KU Alumni Scholarships	2014
The Alumni Association, Korea University	
Full tuition (\$4,200)	
*Among 1 of 177 students at Korea University selected for this merit-based scholarship. Selected based on academic excellence and potential for positively impacting society	
Choonpha Hwangchungha Scholarships	2013
The Choonpha Hwangchungha Scholarship Foundation	

Full tuition (\$4,200)

*1 of 6 students at Korea University selected for this merit-based scholarship. Selected based on academic excellence

Sung Ryun Scholarships

2013

The Sung Ryun Scholarship Foundation

Full tuition (\$4,200)

*1 of 65 students selected across South Korea for this scholarship. Selected based on the potential to become a global leader (and family household income <\$55,000/year)

Study Scholarships

2012, 2014

Korea University

Awarded for high GPA (\$1,000 / \$1,100)

*Awarded for high academic achievement and financial need

Honors Scholarships

2009

Department of Psychology, Korea University

Students with a high GPA in the department

35% of tuition (\$1,250)

*A merit-based scholarship awarded for students in the top 5% of GPA in the Department

ACADEMIC HONORS & AWARDS

Participation Award in AI Hub Data Utilization Idea Competition

Nov. 2019

National Information Society Agency (NIA)

Best Oral Presentation Award

April 2016

Korean Clinical Psychology Association (KCPA)

Semester High Honors

2014

Department of Psychology, Korea University

– 2009

Students with GPA of over 4.0 for 5 semesters

WORK & RESEARCH EXPERIENCE

Data Scientist

Oct. 2019

Data Hub Team, Office of Digital Information, Korea University

– Present

Advisor: Gyu-Tae Kim, Ph.D.

- Developed AI-based recommender systems of lectures, majors and extra-curricular activities for college students to provide academic guidance – built core algorithms based on Deep Learning algorithms (BERT, GCN, graphSAGE, etc.)
- Developed deep neural network models to predict students' academic performance and psychological well-being using the massive Learning Management System (LMS) log data using LSTM
- Hosted R programming and advanced statistics workshops for administrative officers

Clinical Researcher

Feb. 2019

Student Counseling Center, Korea University

– Sep. 2019

Advisor: Young-gun Ko, Ph.D.

- Built an online system to conduct psychological assessments and provide personalized interpretations
- Provided positive psychology intervention for 1000+ college students and community people
- Developed and validated a novel psychological assessment of one's self-image – a visualize mental representation through the reverse correlation method
- Hosted R programming workshops for psychological researchers and counselors

Post-Master Research Associate

Mar. 2018

Mentoring Counseling Center of College of Liberal Arts at Korea University

– Jan. 2019

Advisor: Young-gun Ko, Ph.D.

- Conducted and interpreted 100+ cases of psychological assessments –including MMPI, the Rorschach inkblot test, defense mechanism interview, career aptitude assessment
- Conducted 10+ cases of individual and group counseling – positive psychology-based

- program (mental-fitness program)
- Performed psychological experiments
 - Built online and offline experiments using Python and PsychoPy (powered by Pavlovia.org for online experiments)
 - Produced dynamic facial stimuli from standardized facial stimuli sets via face morphing method using open source Computer Vision Library (OpenCV)
- Managed a government-funded project (the CORE Project)

PROFESSIONAL SKILLS

Programming Languages & Statistical Software

R, Python, SQL, HTML, Markdown, JavaScript, Latex, Matlab, M-Plus, Git, NetLogo, etc.

Data Visualization Tools

R Shiny, Plotly/Dash, Gephi, Tableau, Power BI, etc.

Machine Learning & Deep Learning Frameworks

Recommendation system, natural language processing (NLP), dimension reduction, computer vision, pytorch, tensorflow, scikit-learn, stellargraph, genism, etc

Statistical Analyses

Multilevel models, structural equation models (SEM), generalized regression models, Bayesian analyses, social network analyses, actor-partner interdependent models (APIM), ecological diversity analyses, experience sampling method (ESM), etc.

Psychological Assessment (proficient in implementing & interpretation)

Rorschach inkblot test, Korean Wechsler adult intelligence scale-IV, defense mechanism interview, Wisconsin card sorting test, the house-tree-person test (HTP), MMPI-2, sentence completion test (SCT)

ADDITIONAL

- Participated for five years as a research mentor in UMA, an undergraduate research association funded by the Korean Psychological Association
- Served for two years as an academic secretary of the Mental Fitness Positive Psychology Research Association under the Korea Clinical Psychology Association
- Participated in the Korea University Buddy Assistant (KUBA) – helped two exchange students adjust to Korean culture and campus life
- Participated for the Student Welfare Committee (KU-Well) – organized student welfare programs
- Enthusiastic scuba diver; dived in Iceland, Great Barrier Reef, Fiji, and the Philippines.
- Vice president of the student association of the Seoul Foreign Language High School
- President of the breakdance team (WACK) – won two community b-boying contests

REFERENCES

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