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

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

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

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

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

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. Min, H., Kim, J., **Moon, Kibum**, Kim, S., Kim, J., Ko, Y. (*under review at BMC Psychology*) Development and Validation of COVID-19 Impact Scale.

3. Kim, H., Kim J., **Moon, Kibum**, Jeong, J., Ko. Y. (*preparing to submit again*) Effects of Communal Narcissism and Altruism on Psychosocial Maturity.

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 at 2020 APS Virtual Poster Showcase, Virtual.

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
- Serviced 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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