

Can Şerif Mekik
July 15, 2023

University of Toronto
Department of Psychology
4th Floor, Sidney Smith Hall
100 St. George Street
Toronto, ON, Canada M5S 3G3

APPOINTMENTS

- 2023 **Assistant Professor**
Department of Psychology, Faculty of Arts and Science
Cognitive Science Program, University College
University of Toronto, CAN
- 2022 **Postdoctoral Fellow**
Department of Psychology, Université du Québec à Montréal, CAN

EDUCATION

- 2022 **PhD**, Department of Cognitive Science, Rensselaer Polytechnic Institute, USA
Thesis: *Raven's Matrices in the Clarion cognitive architecture*
- 2016 **M. Cog. Sc.**, Institute of Cognitive Science, Carleton University, CAN
Thesis: *An evaluation procedure for artificial imagination systems*
- 2014 **Hon. B. Sc.**, University of Toronto, CAN
- 2009 **French Baccalaureate** (Science), Lycée Charles de Gaulle, TUR

PUBLICATIONS

Journal Articles

- 2022 **Mekik, C. S.**; Galang, C. M. Cognitive Science in a Nutshell. *Cognitive Science*, 46(8), e13179.
DOI: 10.1111/cogs.13179
- 2020 Sevi, S.; **Mekik, C. S.**; Blais, A.; Çakır, S. How do Turks abroad vote? *Turkish Studies*, 21(2),
pp. 208-230. DOI: 10.1080/14683849.2019.1607311
- 2019 Mageau, M.; **Mekik, C.**; Sokalski, A.; Toivonen, I. Detecting Foreign Accents in Song. *Phonetica*, 76(6), pp. 429-447. DOI: 10.1159/000500187

Papers In Proceedings

- 2021 **Mekik, C.** Logic Programs as Executable Experimental Task Specifications. In *Proceedings of the 43rd Annual Conference of the Cognitive Science Society* (CogSci-2021). Vienna, Austria: University of Vienna.
- 2018 **Mekik, C.**; Sun, R.; and Dai, D. Y. Similarity-based and Rule-based Reasoning in Raven's Matrices. In I. Juvina, J. Hout, and C. Myers (Eds.), *Proceedings of the 16th International Conference on Cognitive Modeling* (ICCM-2018; pp. 76-82). Madison, WI: University of Wisconsin.
- 2018 **Mekik, C.**; Sun, R.; and Dai, D. Y. Similarity-Based Reasoning, Raven's Matrices, and General Intelligence. In Jérôme Lang (Ed.), *Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence* (IJCAI-2018; 1576-1582).
- 2017 **Mekik, C.**; Sun, R.; and Dai, D. Y. Deep Learning of Raven's Matrices. In *Proceedings of the Fifth Annual Conference on Advances in Cognitive Systems* (ACS-2017).

HONORS AND AWARDS

- 2017 Humanities, Arts and Social Sci. Fellowship (2 yrs), Rensselaer Polytechnic Institute.
- 2017 75th McKinney Writing Contest, Graduate Essay, Rensselaer Polytechnic Institute, 2nd Place.
- 2015 Hamlin Graduate Fellowship (1 yr), Carleton University.
- 2014 Departmental Scholarship (2 yrs), Institute of Cognitive Science, Carleton University.

INVITED TALKS

- 2023 **Mekik, C.** *Psychometrics and cognitive architectures: Why model psychometric tests?*. Department of Cognitive Science, Carleton University, Ottawa, ON, January 25, 2023.
- 2020 Sun, R. and **Mekik, C.** *Clarion and Raven's Matrices*. Virtual International Symposium on Cognitive Architecture (VISCA 2020), June 4-5, 2020, online.

PODIUM PRESENTATIONS

- 2016 **Mekik, C.** and Singh, R. *Turkish disjunctions and the morphological realization of 'exh'*. Disjunction Days, June 2–3, 2016, ZAS Berlin, Berlin, Germany.
- 2015 Mageau, M., **Mekik, C.** and Wang, E. *Foreign accents in song and speech*. 2015 Ottawa Conference for Linguistics Undergraduates and Master's Students (OCLU+M 2015), December 5, 2015, University of Ottawa, Ottawa, ON.
- 2015 **Mekik, C. S.** *Covert Exhaustification and Turkish Disjunctive Phrases*. 8th Annual Toronto-Ottawa-Montreal Workshop on Semantics (TOM-8), April 11, 2015, Carleton University, Ottawa, ON.

POSTER PRESENTATIONS

- 2016 **Mekik, C.** and Vertolli, M. *Towards computer implementations of exh*. MIT Workshop on Exhaustivity 2016, September 10, 2016, Massachusetts Institute of Technology, Boston, MA.
- 2015 **Mekik, C. S.**, Somers, S., Vertolli, M. O., Davies, J., Stewart, T. C. *Nimage: Using Visible Persistence to Constrain a Model of Visual Processing*. 25th Annual Meeting of the Canadian Society for Brain Behavior and Cognitive Science (CSBBCS-2015), June 5–7, 2015, Ottawa, ON.

DEPARTMENTAL PRESENTATIONS

- 2021 **Mekik, C.** *Progress on INQUIRY, a model of human response processes in the Raven's Matrices task in the Clarion cognitive architecture*. Department of Cognitive Science, Rensselaer Polytechnic Institute, Troy, NY.
- 2019 **Mekik, C.** *Towards a Clarion Model of Raven's Matrices*. Department of Cognitive Science, Rensselaer Polytechnic Institute, Troy, NY.
- 2018 **Mekik, C.** *A computational psychological model of Raven's Matrices*. Department of Cognitive Science, Rensselaer Polytechnic Institute, Troy, NY.
- 2017 **Mekik, C.** *A computational account of a general intelligence test: Synergy between artificial intelligence and psychometric testing*. Department of Cognitive Science, Rensselaer Polytechnic Institute, Troy, NY.
- 2017 **Mekik, C.** *A Deep Learning Model of Raven's Matrices: Promise and Progress*. Department of Cognitive Science, Rensselaer Polytechnic Institute, Troy, NY.
- 2016 **Mekik, C.** *Developing an Automated Evaluation Procedure for Artificial Imagination Systems*. Department of Cognitive Science, Rensselaer Polytechnic Institute, Troy, NY.
- 2016 Mageau, M. and **Mekik, C.** *Foreign accents in song and speech*. Institute of Cognitive Science, Carleton University, Ottawa, ON.

CODE & DATA

pyClarion, Creator & Maintainer

Open source Python library for the Clarion cognitive architecture.

TEACHING EXPERIENCE**McGill University**

- 2022 Workshop Instructor, Machine Learning Basics
- 2022 Workshop Instructor, Data Visualization in Python
- 2022 Workshop Instructor, Data Science in Python
- 2021 Workshop Instructor, Data Visualization in Python
- 2021 Workshop Instructor, Data Science with Python

Rensselaer Polytechnic Institute

- 2021 Teaching Assistant, Introduction to Psychological Science
- 2020 Teaching Assistant, General Psychology
- 2020 Teaching Assistant, Cognition and the Brain & Behavioral Neuroscience
- 2019 Teaching Assistant, Are Humans Rational?
- 2017 Teaching Assistant, Forensic Psychology
- 2016 Teaching Assistant, Psychology and the Law

Carleton University

- 2016 Teaching Assistant, Introduction to Cognitive Science
- 2015 Teaching Assistant, Mysteries of the Mind

RESEARCH EXPERIENCE

- 2020 Research Assistant for Ron Sun, Rensselaer Polytechnic Institute
- 2017 Research Assistant for Ron Sun, Rensselaer Polytechnic Institute
- 2015 Research Assistant for Raj Singh, Carleton University

REVIEWERSHIP

- Cambridge Handbook of Computational Cognitive Sciences*
- International Journal of Approximate Reasoning*
- Neural Networks*
- International Joint Conference on Artificial Intelligence
- Cognitive Science Conference
- International Conference on Cognitive Modeling

ETHICS, INCLUSIVITY, AND LEADERSHIP TRAINING

- 2020 Professional Leadership Series, Rensselaer Polytechnic Institute
- 2019 Professional Leadership Series, Rensselaer Polytechnic Institute

AFFILIATIONS TO PROFESSIONAL SOCIETIES

- Cognitive Science Society
- Institut des sciences cognitives, Université du Québec à Montréal

SOFTWARE & PROGRAMMING LANGUAGES

Python (expert)
LaTeX (advanced)
Stata (advanced)
R (advanced)
Prolog (intermediate)
Racket (intermediate)
Java (basic)

LANGUAGES

Turkish (native)
English (native)
French (fluent)
German (basic)