

# Can Şerif Mekik

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## EDUCATION

- 2022 **PhD**, Department of Cognitive Science, Rensselaer Polytechnic Institute, Troy, NY, USA.
- 2016 **M. Cog. Sc.**, Institute of Cognitive Science, Carleton University, Ottawa, ON, CAN.
- 2014 **Hon. B. Sc.**, Cognitive Science & Mathematics, University of Toronto, Toronto, ON, CAN.
- 2009 **French Baccalaureate**, Science stream, Lycée Charles de Gaulle, Ankara, TUR.

## PUBLICATIONS

### Journal Articles

- 2022 Mekik, C. S.; Galang, C. M. Cognitive Science in a Nutshell. *Cognitive Science*, in press.
- 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

- 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.
- 2016 Mekik, C. and Vertolli, M. *Towards computer implementations of exh*. 9th Annual Toronto-Ottawa-Montreal Workshop on Semantics (TOM-9), April 23, 2016, McGill University, Montréal, QC.
- 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*  
*Neural Networks*  
International Joint Conference on Artificial Intelligence  
Cognitive Science Conference

## ETHICS, INCLUSIVITY, AND LEADERSHIP TRAINING

- 2019 Professional Leadership Series, Rensselaer Polytechnic Institute.

## AFFILIATIONS TO PROFESSIONAL SOCIETIES

Graduate Student Member, Cognitive Science Society.

**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)