Yoed N. Kenett - CV

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Technion-Israel Institute of Technology
Faculty of Data and Decision Sciences
Bloomfield 521 | +972-4-829-4430
yoedk@technion.ac.il

Academic Positions

2022 – 2024	**Louis and Bessie Stein Fellow**
	Drexel University, PA USA
2021	**COLIBRI Visiting Fellow**
	University of Graz, Graz, Austria
2020 – present	**Assistant Professor**
	Faculty of Data and Decision Sciences
	Technion – Israel Institute of Technology, Israel
2016 – 2020	**Post-Doctoral Fellow**
	Department of Psychology, University of Pennsylvania, USA
	Advisors: Sharon Thompson-Schill; Anjan Chatterjee
2015 - 2016	**Post-Doctoral Fellow**
	Department of Cognitive, Linguistic, and Psychological Sciences, Brown University, USA
	Advisors: Joseph Austerweil; Bertram Malle

Education

2009 – 2015	**Ph.D. Cognitive Neuroscience**
	Gonda Brain Research Center, Bar-Ilan University
	Advisors: Miriam Faust, David Anaki
2007 – 2009	**M.A. Cognitive Science**
	The Hebrew University
2004 – 2007	**B.A. Psychology & Cognitive Science**
	The Hebrew University

Research Interests

Higher-level cognition; Cognitive complexity; Creativity; Semantic memory structure in typical and atypical populations; Network science in cognitive science; Network neuroscience; Cognitive search; Associative thought

Research Grants

2023 – 2027 – Co-PI. HORIZON MSCA Staff Exchange, "Overcoming Multilevel Information Overload" (Total cost = 27,500 Euro).

2022 – 2026 – Principal Investigator. Bi-National US-Israel Science Foundation, "How semantic memory shapes the creative brain: Tracking longitudinal change in creative thinking via network science and machine learning modeling of brain and behavior" (Total cost = $250,000).

2022 – 2024 – Principal Investigator**.** The Harold and Inge Marcus Endowment for Technion/PSU IE Partnership, "Enhancing creativity in engineering students – a neurocognitive exploration" (Total cost = $10,000).

2022 – 2024 – Principal Investigator. Louis and Bessie Stein Family Fellowship for Exchange with Israeli Universities, "Elucidating and manipulating neural mechanisms related to semantic memory dynamics" (Total cost = $**14**,000).

Honors and Awards

2021 – The APA Division 10 Berlyne Award for outstanding research

2019 – The Society for Neuroscience of Creativity conference travel award

2017 – The Society for Neuroscience of Creativity conference travel award

2015 – The 123rd APA Annual Convention international students travel grant

2012 – Excellent research award, Bar-Ilan University

Invited Talks

2023 – The role of knowledge in creative thinking. Unwinding Complexity 2023. London, UK.

2023 – Perceiving Art – Research Approach and Challenge, Paris, France.

2023 – Measuring population level creativity. Cities Summit of the America, Denver Colorado, USA.

2022 – Creativity in the age of the machine. Tel-Aviv Museum, Tel-Aviv, Israel

2022 – Individual differences and creativity in L2 learning. Virtual Meeting.

2022 – The Cross Atlantic Creativity Congress. Salzburg, Austria.

2022 – The Israeli Psychometric Association Annual Meeting. Virtual meeting.

2021 – Complexity and Cognition Satellite symposium of the Conference on Complex Systems. Virtual meeting.

2021 - Marconi Institute for Creativity Annual Meeting. Bologna, Italy.

2021 – Berylne award talk. Annual meeting of the American psychological Association.

2021 – The University of Haifa's Neuroimaging Forum Annual Retreat. Dalya, Israel.

2020 – Complexity and Cognition Satellite symposium of the Conference on Complex Systems. Virtual meeting.

2020 – Network analysis in human cognition and language processing. Institute of Psychology of the Russian academy of Sciences. Virtual meeting.

2019 – Brain and Spine Institute (ICM), Paris, France.

2019 – Controlling complex networks: When control theory meets network science. Satellite symposium of the annual meeting of the Network Science society, Burlington VT, USA.

2019 – Networks in Cognitive Science 2019. Satellite symposium of the annual meeting of the Network Science society, Burlington VT, USA.

2019 – How systems learn, change, and self-organize: Insights from network science. Indiana University, Bloomington IN USA.

2018 – Symposium on the computational methods and systems for the cognitive modelling and support of creativity and creative problem solving. The 40th Annual Meeting of the Cognitive Science Society, Madison WI, USA.

2018 – Symposium on the aging lexicon. Basel, Switzerland.

2017 - The Psychology of Aesthetics, Creativity, and the Arts Colloquium at Pace University. New York NY, USA.

2016 - Purdue Winer Memorial Lectures, West Lafayette IN, USA.

Preprints

1. Chen, Q., Ding, K., Yang, Y., Yu, R., **Kenett, Y. N.,** & Qiu, J. (2022). Effects of non-invasive brain stimulation on creative thinking: A systematic review and meta-analysis. PsyArxiv. DOI: https://doi.org/10.31234/osf.io/nza2f

2. Stella, M., Citrao, S., Rossetti, G., Marinazzo, D., **Kenett, Y. N**., & Vitevitch, M. S. (2022). Cognitive modeling with multilayer networks: Insights, advancements, and future challenges. *Arxiv*. DOI: https://doi.org/10.48550/arXiv.2210.00500.

3. Bieth, T., **Kenett, Y. N.**, Ovando-Tellez, M., Lacaux, C., Oudiette, D., & Volle, E. (2021). Dynamic changes in semantic memory structure supports successful problem solving. *PsyArxiv*. DOI: 10.31234/osf.io/38b4w.

4. **Kenett, Y. N.,** & Thompson-Schill, S. L. (2020). Novel conceptual combinations can dynamically reconfigure semantic memory networks. *PsyArxiv*. DOI: 10.31234/osf.io/crp47.

Papers in Peer-Reviewed Journals (* - equal contribution, + - student)

1. Kelly, A. E., **Kenett, Y. N.,** Medaglia, J. D., Reilly, J., & Chrysikou, E. G. (in press). Conceptual structure of emotions. *Emotions*.

2. **Kenett, Y. N**., & Ackerman, R. (2023). Creative metacognition: A much needed bridge between meta-reasoning and creativity. *Physics of Life Reviews*, 47, 162-164. DOI: https://doi.org/10.1016/j.plrev.2023.10.006.

3. Raz+, T., Reiter-Palmon, R., & **Kenett**, **Y. N.** (2023). The role of asking more complex questions in creative thinking. *Psychology of Aesthetics, creativity, and the Arts.* DOI: https://doi.org/10.1037/aca0000658.

4. Stella, M., Hills, T. T., & **Kenett, Y. N.** (2023). Using cognitive psychology to understand GPT-like models needs to extend beyond human biases. *Proceedings of the National Academy of Sciences*, 120(43), e2312911120. DOI: https://doi.org/10.1073/pnas.2312911120

5. Green, A. E., Beaty, R. E., **Kenett, Y. N.**, & Kaufman, J. C. (2023). The process definition of creativity. *Creativity Research Journal*. DOI: https://doi.org/10.1080/10400419.2023.2254573

6. Christensen, A. P., **& Kenett, Y. N.** (2023). Semantic network analysis (SemNA): A tutorial on preprocessing, constructing, and analyzing semantic networks. *Psychological Methods,* 28(4), 860-879. DOI: https://doi.org/10.1037/met0000463

7. **Kenett, Y. N**., & Beaty, R. E. (2023). On semantic structures and processes in creative thinking. *Trends in Cognitive Sciences*, 27(11), 979-980. DOI: https://doi.org/10.1016/j.tics.2023.07.011

8. Patterson, J. D., Merseal, H. M., Johnson, D. R., Agnoli, S. Baas, M., Baker, B. S., Barbot, B., Benedek, M., Chen, Q., Corazza, G. E., Forthmann, B., Karwowski, M., Kreisberg-Nitzav, A. **Kenett, Y. N.**, Lubart, T., Mercier, M., Miroshnik, K., Ovando-Tellez, M., Primi, R., Puente-Diaz, R., Said-Metwaly, S., Stevenson, C., Volle, E., van Hell, J. G., & Beaty, R. E. (in press). Multilingual semantic distance: Automatic verbal creativity assessment in many languages. *Psychology of Aesthetics, creativity, and the Arts,* 17(4), 495-507. DOI: https://doi.org/10.1037/aca0000618

9. Beaty, R. E., & **Kenett, Y. N.** (2023). Associative thinking at the core of creativity. *Trends in Cognitive Sciences,* 27(7), 671-683. DOI: https://doi.org/10.1016/j.tics.2023.04.004

10. Matheson, H. E., **Kenett, Y. N**., Graves, C., & Beaty, R. E. (2023). Representing creative thought: A representational similarity analysis of creative idea generation and evaluation. *Neuropsychologia*, 187, 108587. DOI: https://doi.org/10.1016/j.neuropsychologia.2023.108587

11. Beaty*, R. E., **Kenett*, Y. N**., Hass, R. W., & Schacter, D. L. (2023). Semantic memory and creativity: The costs and benefits of semantic memory structure in generating original ideas. *Thinking & Reasoning*, 29(2), 305-339. DOI: https://doi.org/10.1080/13546783.2022.2076742

12. **Kenett, Y. N.,** Gooz[+], N., & Ackerman, R. (2023). The role of semantic associations as a metacognitive cue in creative idea generation. *Journal of Intelligence*, 11(4), 59. DOI: https://doi.org.10.3390/jintelligence11040059

13. Samuel[+], G., Stella, M., Beaty, R. E., & **Kenett, Y. N.** (2023). Predicting openness to experience based on a cognitive multiplex network approach. *Journal of Research in Personality*, 104, 104369. DOI: https://doi.org/10.1016/j.jrp.2023.104369

14. Luchini, S., **Kenett, Y. N.**, Zeitlen, D. C., Christensen, A. P., Ellis, D. E., Brewer, G. A., & Beaty, R. E. (2023). Convergent thinking and insight problem solving relate to semantic memory network structure. *Thinking Skills & Creativity,* 48, 1012777. DOI: https://doi.org/10.1016/j.tsc.2023.101277

15. Reilly, J., Finley, A. M., Litovsky, C., & **Kenett, Y. N.** (2023). Bigram semantic distance as a measure of conceptual transitions in continuous natural language: Theory, tools, applications. *Journal of Experimental Psychology: General*, 152(9), 2578-2590. **DOI: https://doi.org**10.1037/xge0001389

16. Ovando-Tellez*, M., **Kenett*, Y. N**., Benedek, M., Bernard, M., Belo, Y., Belanger, B., Bieth, T., & Volle, E. (2023). Brain connectivity-based prediction of connecting and combining remote semantic associates. *Creativity Research Journal*, 35(3), 522-546. DOI: https://doi.org/10.1080/10400419.2023.2192563

17. Chen*, Q., Christensen*, A. P., **Kenett*, Y. N.**, Ren, Z., Condon, D. M., Bilder, R. M., Qiu, J., & Beaty, R. E. (2023). Mapping the creative personality: A psychometric network analysis of highly creative artists and scientists. *Creativity Research Journal*, 35(3), 455-470. DOI: https://doi.org/10.1080/10400419.2023.2184558

18. Benedek, M., Beaty, R. E., Schacter, D., & **Kenett, Y. N.** (2023). The role of memory in creative ideation. *Nature Reviews Psychology,* 2(4), 246-257. DOI: https://doi.org/10.1038/s44159-023-00158-z

19. Merseal, H. M., Luchini, S., **Kenett, Y. N.,** Knudson, K., Bilder, R. M., & Beaty, R. E. (2023). Free association ability distinguishes highly creative artists from scientists: Findings from the Big-C Project. *Psychology of Aesthetics, Creativity, and the Arts*. DOI: https://10.1037/aca0000545

20. Sasson[+], G., & **Kenett, Y. N**. (2023). A mirror to human question asking: Analyzing the Akinator online question game. *Big Data and Cognitive Computing,* 7(1), 26. DOI: https://doi.org/10.3390/bdcc7010026

21. **Kenett, Y. N.,** Humphries, S., & Chatterjee, A. (2023). A thirst for knowledge: Grounding creativity, curiosity, and aesthetic experience in memory and reward neural systems. *Creativity Research Journal*, 35(3), 412-426. DOI: https://doi.org/10.1080/10400419.2023.2165748

22. Cosgrove, A. L., Beaty, R. E., Diaz, M., & **Kenett, Y. N.** (2023). Age differences in semantic network structure: Acquiring knowledge with aging shapes semantic memory. *Psychology and Aging*, 38(2), 87-102. DOI: https://doi.org/10.1037/pag0000721

23. Merseal, H. M., Beaty, R. E., **Kenett, Y. N.,** Lloyd-Cox, J., de Manzano, Ö., & Norgaard, M. (2023). Representing melodic relationships using network science. *Cognition*, 233, 105362. DOI: https://doi.org/10.1016/j.cognition.2022.105362

24. Sargent, M., **Kenett, Y. N.**, LePage, A., & Matheson, H. E. (2023). The effects of environmental scene and body posture on embodied strategies in creative thinking. *Creativity Research Journal.* DOI: https://doi.org/10.1080/10400419.2022.2160563

25. Yang*, W., Green*, A. E., Chen, Q., **Kenett, Y. N.,** Sun, J., Wei, D., & Qiu, J. (2022). Creative problem solving in knowledge-rich domains. *Trends in Cognitive Sciences,* 26(10), 849-859. DOI: https://doi.org/10.1016/j.tics.2022.06.012

26. Fernande-Fontecha, A., & **Kenett, Y. N**. (2022). Creativity enhances L2 learning: A network science investigation. *Thinking Skills and Creativity,* 45, 101067. DOI: https://doi.org/10.1016/j.tsc.2022.101067

27. Ovando-Tellez, M., Benedek, M., **Kenett, Y. N**., Hills, T. T., Bernard, M., Belo, Y., Belanger, B., Bieth, T., & Volle, E. (2022). An investigation of the cognitive and neural correlates of semantic memory search related to creative ability. *Communications Biology*, 5(1), 604. DOI: https://doi.org/10.1038/s42003-022-03547-x

28. Stella, M., & **Kenett, Y. N.** (2022). Knowledge modelling and learning through cognitive networks. *Big Data and Cognitive Computing,* 6, 53. DOI: https://doi.org/10.3390/bdcc6020053

29. Litovsky, C. P., Finley, A. M., Zuckerman, B., Sayers, M., Schoenhard, J. A., **Kenett, Y. N.**, & Reilly, J. (2022). Semantic flow and its relation to controlled semantic retrieval deficits in the narrative production of people with aphasia. *Neuropsychologia,* 170, 108235. DOI: https://doi.org/10.1016/j.neuropsychologia.2022.108235

30. Rastelli*, C., Greco*, A., **Kenett, Y. N.,** Finocchiaro, C., & De Pisapia, N. (2022). Simulated visual hallucinations in virtual reality enhance creative flexibility. *Scientific Reports*, 12, 4027. DOI: https://doi.org/10.1038/s41598-022-08047-w

31. Ovando-Tellez, M., **Kenett, Y. N**., Benedek, M., Bernard, M., Belo, Y., Belanger, B., Bieth, T., & Volle, E. (2022). Brain connectivity-based prediction of real-life creativity is mediated by semantic memory structure. *Science Advances,* 8(5), eabl4294. DOI: https://doi.org/10.1126/sciadv.abl4924

32. Hills, T. T., & **Kenett, Y. N.** (2022). Is the mind a network? Maps, vehicles, and skyhooks in cognitive network science. *Topics in Cognitive Science*, 14(1)*, 189-208. DOI: https://doi.org/10.1111/tops.12570

33. **Kenett, Y. N.,** & Hills, T. T. (2022). Editors introduction to Networks of the mind: How can network science elucidate our understanding of cognition? *Topics in Cognitive Science*, 14(1), 45-53. DOI: http://doi.org/10.1111/tops.12598

34. Dénervau, S., Christensen, A. P., **Kenett, Y. N**., & Beaty, R. E. (2021). Education shapes the structure of semantic memory and impact creative thinking. *npj Science of Learning*, 6(1), 35. DOI: https://doi.org/10.1038/s41539-021-00113-8

35. Matheson, H. E., & **Kenett, Y., N.,** (2021). A novel coding scheme for assessing responses in divergent thinking: An embodied approach. *Psychology of Aesthetics, Creativity, and the Arts*, 15(3), 412-425*.* DOI: https://psycnet.apa.org/doi/10.1037/aca0000297

36. He, D., Workman, C., **Kenett, Y. N**., Chatterjee, A., & He, X. (2021). The effect of aging on facial attractiveness: An empirical and computational investigation. *Acta Psychologica*, 219, 103385*.* DOI: https://doi.org/10.1016/j.actpsy.2021.103385

37. **Kenett, Y. N.,** Ungar, L., & Chatterjee, A. (2021). Beauty and wellness in the semantic memory of the beholder. *Frontiers in Psychology,* 12:696507. DOI: https://doi.org/10.3389/fpsyg.2021.696507

38. Levy*, O., **Kenett*, Y. N**., Oxenberg, O., Castro, N., De Deyne, S., Vitevitch, M. S., & Havlin, S. (2021). Unveiling the interactive nature of semantics and phonology in lexical access based on multiplex networks. *Scientific Reports*, 11(1), 11479. DOI: https://doi.org/10.1038/s41598-021-93925-y

39. Beaty, R. E., Zeitlen, D. C., Baker, B. S., & **Kenett, Y. N.** (2021). Forward flow and creative thought: Assessing associative cognition and its role in divergent thinking. *Thinking Skills and Creativity*, 41, 100859. DOI: https://doi.org/10.1016/j.tsc.2021.100859

40. Cosgrove, A. L., **Kenett, Y. N.**, Beaty, R. E., & Diaz, M. T. (2021). Quantifying flexibility of thought: The resiliency of semantic networks differs across the lifespan. *Cognition*, 211, 104631. DOI: https://doi.org/10.1016/j.cognition.2021.104631

41. Li, Y**., Kenett, Y. N.**, Hu, W., & Beaty, R. E. (2021). Flexible semantic network structure supports the production of creative metaphors. *Creativity Research Journal*, 33(3), 209-223). DOI: https://10.1080/10400419.2021.1879508

42. **Kenett, Y. N.,** Rosen, D., Tamez, E., & Thompson-Schill, S. L. (2021). Noninvasive brain stimulation to lateral prefrontal cortex alters the novelty of creative idea generation. *Cognitive, Affective, and Behavioral Neuroscience*, 21(2), 311-326. DOI: https://doi.org/10.3758/s13415-021-00869-x

43. He*, L., **Kenett*, Y. N**., Zhuang, K., Liu, C., Zeng, R., Yan, T., Huo, T., & Qiu, J. (2021). The relation between semantic memory structure, associative abilities, and verbal and figural creativity. *Thinking & Reasoning*, 27(2), 268-293. DOI: https://doi.org/10.1080/13546783.2020.1819415

44. **Kenett*, Y. N**., Kraemer*, D. J. M., Alfred, K. L., Collaizi, G. A., Cortes, R. A., & Green, A. E. (2020). Developing a neurally informed ontology of creativity measurement. *NeuroImage*, 221, 117166. DOI: https://doi.org/10.1016/j.neuroimage.2020.117166

45. Beaty, R. E., & **Kenett, Y. N.** (2020). Mapping the creative mind. *American Scientist*, 108(4), 218-224. DOI: https://doi.org/10.1511/2020.108.4.218

46. Paulin, T., Roquet, D**., Kenett, Y. N**., Savage, G., & Irish, M. (2020). The effect of semantic memory degeneration on creative thinking: A voxel-based morphometry analysis. *NeuroImage*, 220, 117073. DOI: https://doi.org/10.1016/j.neuroimage.2020.117073

47. **Kenett, Y. N**., Anderson, S., Chen, E., Kelly, J. M., Christian, M., Patrick, J., Huang, L., Lewis, K., & Gray, K. (2020). Clarifying what forward flow is (and isn't): Reply to Rossiter (2020). *American Psychologist*, 75(5), 727-728. DOI: http://dx.doi.org/10.1037/amp0000700

48. **Kenett, Y. N**., Beckage, N. M., Siew, C. S. Q., & Wulff, D. U. (2020). Cognitive network science: A new frontier. *Complexity,* 2020, 6870278. DOI: https://doi.org/10.1155/2020/6870278

49. Matheson, H. E., & **Kenett, Y. N**. (2020). The role of the motor system in generating creative thoughts. *Neuroimage,* 213, 16697. DOI: https://doi.org/10.1016/j.neuroimage.2020.116697

50. Hartung*, F., **Kenett*, Y. N.,** Cardillo, E. R., Humphries, S., Klooster, N., & Chatterjee, A. (2020). Context matters: Novel metaphors in supportive and non-supportive contexts. *NeuroImage,* 212, 116645. DOI: https://doi.org/10.1016/j.neuroimage.2020.116645

51. Coburn, A., Vartanian, O., **Kenett, Y. N.,** Nadal, M., Hertung, F., Hayn-Leichsenring, G. U., Navarrete, G., González-Mora, J. L., & Chatterjee, A. (2020). Psychological and neural responses to architectural interiors. *Cortex,* 126, 217-241. DOI: https://doi.org/10.1016/j.cortex.2020.1.009

52. **Kenett*, Y.** N., Betzel*, R. F., & Beaty, R. E. (2020). Community structure of the creative brain at rest. *Neuroimage*, 210, 116578. DOI: https://doi.org/10.1016/j.neuroimage.2020.116578

53. Beaty*, R. E., Chen*, Q., Christensen, A. P., **Kenett, Y. N.,** Silvia, P. J., Benedek, M., & Schacter, D. L. (2020). Default network contributions to episodic and semantic processing during divergent thinking: A representational similarity analysis. *Neuroimage*, 209, 116499. DOI: https://doi.org/10.1016/j.neuroimage.2019.116499

54. Hayn-Leichsenring*, G. U., **Kenett*, Y. N.,** Schulz, K., & Chatterjee, A. (2020). Abstract art paintings, global image properties, and verbal descriptions: An empirical and computational investigation. *Acta Psychologica,* 202, 102936. DOI: https://doi.org/10.1016/j.actpsy.2019.102936

55. Stella, M., & **Kenett, Y. N.** (2019). Viability in multiplex lexical networks and machine learning characterize human creativity. *Big Data and Cognitive Computing*, 3(3), 45. DOI: https://doi.org/10.3390/bdcc3030045

56. Wulff, D. U., De Deyne, S., Jones, M. N., Mata, R., & the Aging Lexicon Consortium (2019). New perspective on the aging lexicon. *Trends in Cognitive Sciences*, 23(8), 686-698. DOI: https://doi.org/10.1016/j.tics.2019.05.003

57. Siew, C. S. Q., Wulff, D., Beckage, N. M., & **Kenett, Y.** N. (2019). Cognitive Network Science: A review of research on cognition through the lens of network representations, processes, and dynamics. *Complexity,* 2019, 2108423. DOI: https://doi.org/10.1155/2019/2108423

58. **Kenett, Y. N.**, & Faust, M. (2019). A semantic network cartography of the creative mind. *Trends in Cognitive Sciences*, 23(4), 274-276. DOI: https://doi.org/10.1016/j.tics.2019.01.007

59. Gray, K., Anderson, S., Chen, E., Kelly, J. M., Christian, M., Patrick, J., Huang, L., **Kenett, Y. N.**, & Lewis, K. (2019). Forward flow: A new measure to quantify free thought and predict creativity. *American Psychologist*, 74(5), 539-554. DOI: http://dx.doi.org/10.1037/amp0000391

60. **Kenett, Y. N.** (2019). What can quantitative measures of semantic distance tell us about creativity? *Current Opinion in Behavioral Sciences*, 27, 11-16. DOI: https://doi.org/10.1016/j.cobeha.2018.08.010

61. **Kenett, Y. N**., Beaty, R. E., & Medaglia, J. D. (2018). A computational network control theory analysis of depression symptoms. *Personality Neuroscience*, 1, E18. DOI: https://doi.org/10.1017/pen.2018.15

62. Christensen, A. P., **Kenett, Y. N**., Cotter, K. N., Beaty, R. E., & Silvia, P. J. (2018). Remotely close associations: Openness to experience and semantic network structure. *European Journal of Personality*. 32, 480-492. DOI: https://doi.org/10.1002/per.2157. **Selected to participate in the Center for Open Science's Systematic Confidence in Open Research and Evidence (SCORE) program.**

63. **Kenett, Y. N.**, Gold, R. & Faust, M. (2018). Metaphor comprehension in low and high creative individuals. *Frontiers in Psychology*, 9:482. DOI: https://doi.org/10.3389/fpsyg.2018.00482

64. Christensen*, A. P., **Kenett*, Y. N.,** Aste, T., Silvia, P. J., & Kwapil, T. R. (2018). Network structure of the short forms of the Wisconsin schizotypy scales-short forms: Examining psychometric network filtering approaches. *Behavior Research Methods*, 50(6), 2531-2550. DOI: https://doi.org/10.3758/s13428-018-1032-9

65. **Kenett*, Y. N.,** Medaglia*, J. D., Beaty, R. E., Chen, Q., Betzel, R. F., Thompson-Schill, S. L., & Qiu, J. (2018). Driving the brain towards creativity and intelligence: A network control theory analysis. *Neuropsychologia*, 118, 79-90. DOI: https://doi.org/10.1016/j.neuropsychologia.2018.01.001

66. **Kenett*, Y. N.**, Levy*, O., Kenett, D. Y., Stanley, H. E., Faust, M., & Havlin, S. (2018). Flexibility of thought in high creative individuals represented by percolation analysis. *Proceedings of the National Academy of Sciences,* 115(5), 867-872. DOI: https://doi.org/10.1073/pnas.1717362115

67. Beaty, R. E., **Kenett, Y. N**., Christensen, A. P., Rosenberg, M. D., Benedek, M., Chen, Q., Fink, A. Qiu, J., Kwapil, T. R., Kane, M. J., & Silvia, P. J. (2018). Robust prediction of individual creative ability from brain functional connectivity. *Proceedings of the National Academy of Sciences,* 115(5), 1087-1092. DOI: https://doi.org/10.1073/pnas.1713532115

68. **Kenett, Y. N.**, Levi, E., Anaki, D., & Faust, M. (2017). The semantic distance task: Quantifying semantic distance with semantic network path length. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 43(9), 1470-1489. DOI: https://doi.org/10.1037/xlm0000391

69. Benedek, M., **Kenett, Y. N.**, Umdasch, K., Anaki, D., Faust, M., & Neubauer, A. (2017). How semantic memory structure and intelligence contribute to creative thought: A network science approach. *Thinking & Reasoning*, 23(2), 158-183. DOI: https://doi.org/10.1080/13546783.2016.1278034

70. Borodkin, K., **Kenett, Y. N.**, Faust, M., & Mashal, N. (2016). When pumpkin is closer to onion than squash: The structure of the second language lexicon. *Cognition*, *156*, 60-70. DOI: https://doi.org/10.1016/j.cognition.2016.07.014

71. **Kenett, Y. N.**, Beaty, R. E., Silvia, P. J., Anaki, D., & Faust, M. (2016). Structure and flexibility: Investigating the relation between the structure of the mental lexicon, fluid intelligence and creative achievement. *Psychology of Aesthetics, Creativity, and the Arts*, 10(4), 377-388. DOI: https://doi.org/10.1037/aca0000056

72. Beaty, R. E., Kaufman, S. B., Benedek, M., Jung, R. E., **Kenett, Y. N.**, Jauk, E., Neubauer, A., & Silvia, P. J. (2016). Personality and complex brain networks: The role of openness to experience in default network efficiency. *Human Brain Mapping,* 37(2), 773-779*.* DOI: https://doi.org/10.1002/hbm.23065

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Book Chapters

1. **Kenett, Y. N**. (2023). Creatively searching through semantic memory structure: A short integrative review. In L. J. Ball and F. Vallée-Tourangea (Eds.). *Routledge International Handbook of Creative Cognition* (pp. 160-179). Abington, UK: Routledge. DOI: https://doi.org/10.4324'9781003009351-13

2. Humphries, S., **Kenett, Y. N**., & Chatterjee, A. (forthcoming). Curiosity, epistemic uncertainty, creativity, and aesthetics. In Boyle, G. J., (Ed.), *The SAGE Handbook of Cognitive and Systems Neuroscience* (pp. xx-xx). Sage.

3. **Kenett, Y. N.** (forthcoming). Assessing the role of associative abilities in creative thinking via behavioral, computational, and neuroscientific approaches. In S. Acar and M. Runco (Eds.), *Handbook of Creativity Assessment* (pp. xx-xx). Elgar.

4. **Kenett, Y. N**., & Chatterjee, A. (2022). The neuroscience of well-being: A general framework and its relation to humanistic flourishing. In J. O. Pawelski and L. Tay (Eds.), *The Oxford Handbook of Positive Psychology on the Arts and Humanities: Theory and Research* (pp. 129-139). Oxford, UK: Oxford University Press.

5. **Kenett, Y. N.**, & Faust, M. (2019). Clinical Cognitive Networks: A graph theory approach. In M. S. Vitevitch (Ed.), *Network Science in Cognitive Science* (pp. 136-165). New York, NY: Routledge.

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Conference Proceedings (* - equal contribution)

1. Bieth, T., **Kenett, Y. N**., Ovando-Tellez, M., Lacaux, C., Oudiette, D., & Volle, E. (2022). Restructuring problem-related semantic associations promotes solving success. In J. Culbertson, A. Prefors, H. Rabagliati, & V. Ramenzoni (Eds.), Proceedings of the 44th Annual Meeting of the Cognitive Science Society (pp. 3871). Toronto, CA: Cognitive Science Society.

2. Malle, B. F., Austerweil, J. L., Chi, V. B., **Kenett, Y. N.,** Beck, E. D., Thapa, S., & Allaham, M. M. (2021). Cognitive properties of norm representations. In T. Fitch, C. Lamm, H. Leder, & K. Tesmar-Raible (Eds.), *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society* (pp. 819-826). Virtual Meeting: Cognitive Science Society.

3. **Kenett, Y. N.**, Baker, B. S., Hills, T. T., Hart, Y. & Beaty, R. E. (2021). Creative foraging: Examining relations between foraging styles, semantic memory structure, and creative thinking. In T. Fitch, C. Lamm, H. Leder, & K. Tesmar-Raible (Eds.), *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society* (p. 3198). Virtual Meeting: Cognitive Science Society.

4. **Ovando-**Tellez, M., **Kenett, Y. N.,** Benedek, M., & Volle, E. (2021). Brain connectivity-based prediction of semantic network properties related to creativity. In T. Fitch, C. Lamm, H. Leder, & K. Tesmar-Raible (Eds.), *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society* (p. 3427). Virtual Meeting: Cognitive Science Society.

5. **Kenett, Y., N**., Castro, N., Karuza, E., & Vitevitch, M. S. (2019). Cognitive network science: Quantitatively investigating the complexity of cognition. In A. Goel, C. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Meeting of the Cognitive Science Society* (pp. 31-32). Montreal, QB: Cognitive Science Society.

6. Beaty, R. E., **Kenett, Y. N**., & Hass, R. (2019). Fanning creative thought: Semantic richness impacts divergent thinking. In A. Goel, C. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Meeting of the Cognitive Science Society* (pp. 126-131). Montreal, QB: Cognitive Science Society.

7. Bernard*, M., **Kenett*, Y. N**., Ovando-Tellez, M., Benedek, M., & Volle, E. (2019). Building individual semantic networks and exploring their relationship with creativity. In A. Goel, C. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Meeting of the Cognitive Science Society* (pp. 138-144). Montreal, QB: Cognitive Science Society.

8. **Kenett, Y., N.,** Tompary, A. M., & Thompson-Schill, S. L. (2019). How the organization of autobiographical memory changes over time. In A. Goel, C. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Meeting of the Cognitive Science Society* (p. 3294). Montreal, QB: Cognitive Science Society.

9. Sargent, M., LePage, A. D., **Kenett, Y. N.**, & Matheson, H. (2019). The role of environment and body in divergent thinking tasks. In A. Goel, C. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Meeting of the Cognitive Science Society* (p. 3527). Montreal, QB: Cognitive Science Society.

10. **Kenett, Y. N**., & Thompson-Schill, S. L. (2017). Dynamic effects of conceptual combination on semantic network structure. In G. Gunzeimann, A. Howes, T. Tenbrinck, & E. Davelaar (Eds.), *Proceedings of the 39th Annual Meeting of the Cognitive Science Society* (pp. 657-662). London, UK: Cognitive Science Society.

11. Sarathy, V., Scheutz, M., **Kenett, Y. N.,** Allaham, M. M., Austerweil, J. L., & Malle, B. F. (2017). Mental representations and computational modelling of context-specific human norm systems. In G. Gunzeimann, A. Howes, T. Tenbrinck, & E. Davelaar (Eds.), *Proceedings of the 39th Annual Meeting of the Cognitive Science Society* (pp. 1035-1040). London, UK: Cognitive Science Society.

12. **Kenett, Y. N**., & Austerweil, J. L. (2016). Examining search processes in low and high creative individuals with random walks. In A. Papafragou, D. Grodner, D. Mirman, & J. C. Trueswell (Eds.), *Proceedings of the 38th Annual Meeting of the Cognitive Science Society* (pp. 313-318). Philadelphia, PA: Cognitive Science Society.

13. Zemla, J. C., **Kenett, Y. N.**, Jun, K.-S., & Austerweil, J. L. (2016). U-INVITE: Estimating individual semantic networks from fluency data. In A. Papafragou, D. Grodner, D. Mirman, & J. C. Trueswell (Eds.). *Proceedings of the 38th Annual Meeting of the Cognitive Science Society* (pp. 1907-1912). Philadelphia, PA: Cognitive Science Society.

Manuscripts Under Peer-Review (* - equal contribution, + - student)

1. Baror, S., Aminoff, E., & **Kenett, Y. N.** (under review). Spontaneous associative thought facilitates scene-gist memory.

2. Bartoli, E., Dewara, E., Dang, H. Q., Rabinovich, R., Mathura, R. K., Anand, A., Pascuzzi, B. R., Adkinson, J., **Kenett, Y. N.,** Bijanki, K. R., Sheth, S. A., & Shofty, B. (under review). Default mode network spatio-temporal electrophysiological signature and causal role in creativity.

3. Bieth, T., **Kenett, Y. N.**, Ovando-Tellez, M., Lacaux, C., Scuccimarra, M., Maye, I. Oudiette, D., & Volle, E. (under review). Dynamic changes in semantic memory structure supports successful problem solving and analogical transfer.

4. Chen*, Q., Ding*,+, K., Yang, Y., Yu, R., **Kenett, Y. N.,** & Qiu, J. (under review). Effects of non-invasive brain stimulation on creative thinking: A systematic review and meta-analysis.

5. Chen*, Q., **Kenett*, Y. N.**, Cui, Z., Takeuchi, H., Fink, A., Benedek, M., Zeitlen, D. Z., Zhuang, K., Lloyd-Cox, J., Qiu, J. & Beaty, R. E. (under review). Culture-invariant dynamic switching between brain networks predicts creative ability.

6. He*, L., **Kenett*, Y. N.**, Zhuang*, K., Sun, J., Qunlin, C., & Qiu, J. (under review). The effect of hub concepts in semantic networks on creative thinking.

7. Herauit, C., Ovando-Tellez, M., Lebuda, I., **Kenett, Y. N.,** Beranger, B., Benedek, M., & Volle, E. (under review). Creative connections: Neuronal correlates of semantic relatedness and their association with creativity.

8. Holyst, J. A., Mayr, P., Frommohlz, I., Havlin, S., Sela, A., **Kenett, Y. N.**, Helie, D., Rehar, A., Macek, S. R., Kazienko, P., & Sienkiewicz, J. (under review). Multilevel information overload: How should we protect against it?

9. **Kenett, Y. N**., Cardillo, E. R., Christensen, A. P., & Chatterjee, A. (under review). An emotional space of the muses: A psychometric network analysis of aesthetic emotions.

10. Li, Y., Beaty, R. E., Luchini, S., Hu, W., & **Kenett, Y. N.** (under review). The role of semantic memory network structure in crystallized intelligence and creative thinking ability.

11. Luchini, S., Wang, S., **Kenett, Y. N.,** & Beaty, R. E. (under review). Mapping the organization of student knowledge with cognitive network science.

12. Raz+, T., & **Kenett, Y. N.** (under review). Question asking as a mechanism that facilitates seeking of information.

13. Stella, M., Citrao, S., Rossetti, G., Marinazzo, D., **Kenett, Y. N.,** & Vitevitch, M. S. (under review). Cognitive modeling with multilayer networks: Insights, advancements, and future challenges.

14. Teles, M., Moore, I., & **Kenett, Y. N.** (under review). How retrieval process mechanisms change with age: Exploring individual differences in free recall.

15. Wise+, T. A., & **Kenett, Y. N.** (under review). Sparking creativity: Encouraging creative idea generation through automatically generated word recommendations.

16. Zioga, I., **Kenett, Y. N.**, Giannopoulos, A., & Luft, C. D. B. (under review). The role of alpha oscillations on free- and goal-directed remote semantic associations.

Conference Presentations

1. **Kenett, Y. N.** (2023c). The way we search our memory predicts our creativity: A cognitive multiplex network approach. *Talk given at the 2023 Symposium for Individual Differences in Cognition.* San Francisco, CA USA.

2. **Kenett, Y. N.** (2023b). The role of memory in the creative process. *Talk given at the 2023 annual meeting of the Psychonomics Society*. San Francisco, CA USA.

3. Ovano-Tellez, , M., **Kenett, Y. N.,** Hills, T. T., Benedek, M., & Volle, E. (2023). Switching fast, switching slow: Searching in memory for creative ideas. *Poster presented at the 2023 American Psychological Association Convention.* Washington DC, USA.

4. Raz, T., Reiter-Palmon, R., & **Kenett, Y. N.** (2023). The role of question asking in creative thinking. *Poster presented at the 2023 American Psychological Association Convention.* Washington DC, USA.

5. **Kenett, Y. N.** (2023a). The way we search our memory predicts our creativity: A cognitive multiplex network approach. *Talk given at the 2023 American Psychological Association Convention.* Washington DC, USA.

6. Ackerman, A., & **Kenett, Y. N.** (2023). Biasing factors for originality judgments? *Talk given at the 14th London Reasoning Workshop (LRW)*. London, UK.

7. Wise, T., & **Kenett, Y. N**. (2023). Encouraging creative idea generation through automatically generated word recommendations in novice and expert writers. *Poster presented at the 8th annual meeting of the Society for the Neuroscience of Creativity*. San Francisco, CA USA.

8. **Kenett, Y. N.** (2023). The role of memory in creative ideation. *Talk given at the annual meeting of the Israeli Society for Cognitive Psychology.* Akko, Israel.

9. Kreisberg Nitzav, A., & **Kenett, Y. N.** (2023). Highly creative artists exhibit a richer mental lexicon structure: Findings from the Big-C project. *Poster presented at the annual meeting of the Israeli Society for Cognitive Psychology.* Akko, Israel.

10. Chen, Q., Ding, K., Yang, Y., Yu, R., **Kenett, Y. N.,** & Qiu, J. (2023). Effects of non-invasive brain stimulation on creative thinking: A systematic review and meta-analysis. *Poster presented at the annual meeting of the Israeli Society for Cognitive Psychology.* Akko, Israel.

11. Raz, T., Reiter-Palmon, R., & **Kenett, Y. N.** (2023). Question asking and creativity – the effect of question level. *Poster presented at the annual meeting of the Israeli Society for Cognitive Psychology.* Akko, Israel.

12. Wise, T. & Kenett, Y. N. (2023). Sparking creativity: Encouraging creative idea generation through automatically generated word recommendations. *Poster presented at the annual meeting of the Israeli Society for Cognitive Psychology.* Akko, Israel.

13. Sasson, G., & **Kenett, Y. N.** (2023). A mirror to human question asking: analyzing the akinator online question game. . *Poster presented at the annual meeting of the Israeli Society for Cognitive Psychology.* Akko, Israel.

14. Wise, T. & Kenett, Y. N. (2023). Sparking creativity: Encouraging creative idea generation through automatically generated word recommendations. *Talk given at the 1ˢᵗ Technion Behavioral Data Science symposium.* Haifa, Israel.

15. Sasson, G., & **Kenett, Y. N.** (2023). A mirror to human question asking: analyzing the akinator online question game. *Poster presented at the 1ˢᵗ Technion Behavioral Data Science symposium.* Haifa, Israel.

16. **Kenett, Y. N.,** Gooz, N., & Ackerman, R. (2022). Examining the conceptual distances in creative ideation. *Talk given at the 1ˢᵗ Meta-Reasoning Conference.* Jerusalem, Israel.

17. Niemkiewicz, J., Sandberg, C. W., Beaty, R. E., & **Kenett, Y. N.** (2022). Exploring semantic memory networks in people with aphasia. *Talk given at the 60ᵗʰ Annual Meeting of the Academy of Aphasia.*

18. Litovsky, C. P., Finley, A. M., Zuckerman, B., Sayers, M., Schoenhard, J. A., **Kenett, Y. N.**, & Reilly, J. (2022). The relationship of semantic flow to controlled semantic retrieval deficits in the narrative production of people with aphasia. *Talk given at the 60ᵗʰ Annual Meeting of the Academy of Aphasia.*

19. Ovando-Tellez, M., Benedek, M., **Kenett, Y. N**., Hills, T. T., Bernard, M., Belo, Y., Belanger, B., Bieth, T., & Volle, E. (2022). An investigation of the cognitive and neural correlates of semantic memory search related to creative ability. *Poster presented at the Society for the Neurobiology of Language Annual Meeting.* Philadelphia, PA USA.

20. Khoury, R., Amir, O., **Kenett, Y. N.,** & Rafaeli, A. (2022). What can we learn by analyzing internal organizational communication? A data science analysis of slack. *Poster presented at IsraHCI2022.*

21. Bieth, T., **Kenett, Y. N.,** Ovando-Tellez, M., Lopez-Persem, A., Lacaux, C., Oudiette, D., & Volle, E. (2022). Restructuring problem-related semantic associations promotes solving success. *Poster presented at the annual meeting of the Cognitive Science Society.* Toronto, CA.

22. Cosgrove, A.L. Beaty, R. E., Diaz, M. T., & Kenett, Y. N. (2022). Acquiring knowledge with aging shapes semantic network structure. *Poster presented at the International Workshop on Language Production.*

23. **Kenett, Y. N.** (2022). From Flatland to DTland: Assessing alternative dimensions of the alternative uses task. *Talk given at the UK Creativity Researchers meeting. London, UK.*

24. Wise, T., Samuel, G., & **Kenett, Y. N.** (2022). Sparking creativity: encouraging creative idea generation through automatically generated word recommendations. *Poster presented at the UK Creativity Researchers meeting. London, UK.*

25. Rastelli, C., Greco, A., Finocchiaro, C. **Kenett, Y. N.**, & De Pisapia, N. (2022). DeepDream altered perceptual phenomenology in VR facilitates cognitive flexibility. *Poster presented at the 7th annual meeting of the Society for the Neuroscience of Creativity*. Virtual meeting.

26. Bieth, T., **Kenett, Y. N.,** Ovando-Tellez, M., Lopez-Persem, A., Lacaux, C., Oudiette, D., & Volle, E. (2022). Restructuring problem-related semantic associations promotes solving success. *Talk given at the 7th annual meeting of the Society for the Neuroscience of Creativity*. Virtual meeting.

27. Christensen, A. P., **Kenett, Y. N.,** Silvia, P. J., & Beaty, R. E. (2022). Humor production ability & semantic memory structure. *Poster presented at the 7th annual meeting of the Society for the Neuroscience of Creativity*. Virtual meeting.

28. **Kenett, Y. N.** (2022). Quantifying the surprisal aspect of open-ended creativity responses. *Talk given at the 2022 American Psychological Association Convention. Minneapolis, MN, USA.*

29. **Kenett, Y. N.** (2022). From Flatland to DTland: Assessing alternative dimensions of the alternative uses task. *Talk given at the 2022 UK's creativity Researcher's Conference*. London, UK.

30. Li, Y., **Kenett, Y. N.**, Zhang, L., Cai, N., & Hu, W. (2022). Flexible scientific semantic memory structure supports the generation and selection of creative scientific questions. *Poster presented at the 7th Annual Meeting of the Society for Neuroscience of Creativity*. Online Conference.

31. Ovando-Tellez, M., Benedek, M., **Kenett, Y. N**., Hills, T. T., Bernard, M., Belo, Y., Belanger, B., Bieth, T., & Volle, E. (2022). An investigation of the cognitive and neural correlates of semantic memory search related to creative ability. *Poster presented at the annual meeting of the Israeli Society for Cognitive Psychology*. Virtual meeting.

32. Levav, R., Teodorescu, K., & **Kenett, Y. N**. (2022). External and internal search: The effect of spatial search on semantic memory. *Poster presented at the annual meeting of the Israeli Society for Cognitive Psychology*. Virtual meeting.

33. Gooz, N., Ackerman, R., & **Kenett, Y. N**. (2022). The role of semantic distance in metacognitive originality judgments. *Poster presented at the annual meeting of the Israeli Society for Cognitive Psychology*. Virtual meeting.

34. Samuel, G., Stella, M., Beaty, R. E., & **Kenett, Y. N.** (2022). Predicting openness to experience via a multiplex cognitive network approach. *Poster presented at the annual meeting of the Israeli Society for Cognitive Psychology*. Virtual meeting.

35. Ezer, A. Rafaeli, A., & **Kenett, Y. N.** (2022). Investigating the core of curiosity: A graph theory analysis. *Poster presented at the annual meeting of the Israeli Society for Cognitive Psychology*. Virtual meeting.

36. Litovsky, C., Finley, A. M., Zuckerman, B., Sayers, M., Schoenhard, J., **Kenett, Y. N.,** & Reilly, J. (2022). Narrowing of semantic scope in narrative production in post-stroke aphasia. *Poster presented at the International Neuropsychological Society*. New Orleans, Louisiana.

37. **Kenett, Y. N.**, & Hills, T. T. (2021). Is the mind a network? Maps, vehicles, and skyhooks in cognitive network science. *Talk given at the 62nd annual meeting of the Psychonomic Society.* Virtual Meeting.

38. **Kenett, Y. N.,** Ungar, L., & Chatterjee, A. (2021). Beauty and wellness in the semantic memory of the beholder. *Talk given at the XXVI Conference of the International Association of Empirical Aesthetics.* Virtual Meeting.

39. **Kenett, Y. N.** (2021). Neural dynamics during the generation and evaluation of creative and non-creative ideas. *Talk given at the annual meeting of the American Psychological Association.* Virtual Meeting.

40. **Kenett, Y. N.**, Baker, B., Hills, T. T., Hart, Y. & Beaty, R. E. (2021). Creative foraging: Examining relations between foraging styles, semantic memory structure, and creative thinking. *Poster presented at the Annual Meeting of the Cognitive Science Society.* Virtual Meeting.

41. **Ovando-**Tellez, M., **Kenett, Y. N**., Benedek, M. & Volle, E. (2021). Brain connectivity-based prediction of semantic network properties related to creativity. *Poster presented at the Annual Meeting of the Cognitive Science Society.* Virtual Meeting.

42. **Kenett, Y. N. (2021).** Neural dynamics during the generation and evaluation of creative and non-creative ideas. *Talk given at the annual meeting of the American Psychological Association.* Virtual meeting.

43. Matheson, H. E**., Kenett, Y. N.,** & Beaty, R. E. (2021). Representing creative thought: A representational similarity analysis of idea generation and evaluation. *Poster presented at the annual meeting of the Cognitive Neuroscience Society*. Virtual meeting.

44. **Kenett, Y. N.** Zioga, I., & Luft, C. D. B. (2021b). Alpha power over right/mid-frontal brain regions support the generation of remote associations in higher creative individuals. *Talk given at the annual meeting of the Cognitive Neuroscience Society*. Virtual meeting.

45. **Kenett, Y. N.** Zioga, I., & Luft, C. D. B. (2021a). Alpha power over right/mid-frontal brain regions support the generation of remote associations in higher creative individuals. *Poster presented at the annual meeting of the Israeli Society for Cognitive Psychology*. Virtual meeting.

46. **Kenett, Y. N.,** Beaty, R. E., Hass, R. W., & Schacter, D. L. (2020). The costs and benefits of semantic memory structure in generating original ideas. *Poster presented at the 61st Annual Meeting of the Psychonomic Society*. Virtual Meeting.

47. **Kenett, Y. N**., Kraemer, D. J. M., Alfred, K. L., Collaizi, G. A., Cortes, R. A., & Green, A. E. (2020). Developing a neurally informed ontology of creativity measurement. *Talk given at The Problem of Cognitive Ontology: Implications for Scientific Knowledge.* Online Conference.

48. Levy, O., **Kenett, Y. N**., & Havlin, S. (2020). Identifying the interactions between phonology and semantics using a multiplex network approach. *Poster presented at the annual meeting of Netsci-X*. Online Conference.

49. Chen, Q., Kenett, Y. N., Cui, Z., Benedek, M., Qiu, J., & Beaty, R. E. (2020). Dynamic balance between default and control networks predicts individual creative thinking ability: Findings from the Creative Connectome Reproducibility Project. *The 6th Annual Meeting of the Society for Neuroscience of Creativity*. Online Conference.

50. Kenett, Y. N., Beaty, R. E., Hass, R. W., & Schacter, D. L. (2020). The costs and benefits of semantic memory structure in generating original ideas. *The 6th Annual Meeting of the Society for Neuroscience of Creativity*. Online Conference.

51. Matheson, H. E., & Kenett, Y. N. (2020). The role of the motor system in generating creative thoughts. *The 6th Annual Meeting of the Society for Neuroscience of Creativity*. Online Conference.

52. Zioga, I., Kenett, Y. N., & Luft, C. D. B. (2020). Alpha power over right/mid-frontal brain regions support the generation of remote associations in higher creative individuals. *The 6th Annual Meeting of the Society for Neuroscience of Creativity*. Online Conference.

53. Chen, Q., Christensen, A. P., Kenett, Y. N., Condon, D. M., Bilder, R. M., Qiu, J., & Beaty, R. E. (2020). A personality network analysis of scientific and artistic creativity. *The 6th Annual Meeting of the Society for Neuroscience of Creativity*. Online Conference.

54. Li, Y., Kenett, Y. N., & Beaty, R. E. (2020). Flexible semantic network structure supports creative metaphor ability. *The 6th Annual Meeting of the Society for Neuroscience of Creativity*. Online Conference.

55. Ovando-Téllez M., Bernard, M., **Kenett, Y. N.,** Benedek, M., & Volle, E. (2020). The relationship between creativity and individual semantic network properties. *Poster presented at the Annual Cognitive Neuroscience Society meeting*. Online Conference.

56. Cosgrove, A., **Kenett, Y. N.,** Beaty, R. E., & Diaz, M. (2020). Quantifying flexibility in thought: The resiliency of semantic networks differ across the lifespan. *Poster presented at the Annual Meeting of the Society for the Neurobiology of Language*. Virtual Meeting.

57. **Kenett, Y. N.** (2019). Introducing cognitive network science. *Talk given at the 41st Annual Meeting of the Cognitive Science Society*. Montreal, CA.

58. Beaty, R. E., **Kenett, Y. N**., & Hass, R. (2019). Fanning creative thought: Semantic richness impacts divergent thinking. *Talk given at the 41st Annual Meeting of the Cognitive Science Society*. Montreal, CA.

59. Bernard*, M., **Kenett*, Y. N**., Ovando-Tellez, M., Benedek, M., & Volle, E. (2019). Building individual semantic networks and exploring their relationship with creativity. *Talk given at the 41st Annual Meeting of the Cognitive Science Society*. Montreal, CA.

60. **Kenett, Y., N.,** Tompary, A. M., & Thompson-Schill, S. L. (2019). How the organization of autobiographical memory changes over time. *Poster presented at the 41st Annual Meeting of the Cognitive Science Society*. Montreal, CA.

61. Sargent, M., LePage, A. D., **Kenett, Y. N.**, & Matheson, H. (2019). The role of environment and body in divergent thinking tasks. *Poster presented at the 41st Annual Meeting of the Cognitive Science Society*. Montreal, CA.

62. Beaty, R. E., **Kenett, Y. N.,** & Hass, R. (2019). Fanning creative thought: Semantic richness impacts divergent thinking. *Talk given at the 41st Annual Meeting of the Cognitive Science Society*. Montreal, CA.

63. Bernard, M., **Kenett, Y. N**., Ovando-Tellez, M., Benedek, M., & Volle, E. (2019). Building individual semantic networks and exploring their relationship with creativity. *Talk given at the 41st Annual Meeting of the Cognitive Science Society*. Montreal, CA.

64. **Kenett, Y. N.,** & Thompson-Schill, S. L. (2019). The dynamic nature of concepts: A semantic network analysis. *Poster presented at the 13th Annual Concepts, Actions, and Objects Conference*. Rovereto, Italy.

65. **Kenett, Y. N.,** Chrysikou, E. G., Bassett, D. S., & Thompson-Schill, S. L. (2019). Neural dynamics of generating and evaluating creative and non-creative ideas. *Poster presented at the Annual Cognitive Neuroscience Society meeting*. San Francisco, California, USA.

66. **Kenett, Y. N.** (2019). Investigating the neural dynamics of divergent thinking. *Talk given at the Annual meeting of the Society for Neuroscience of Creativity*. San Francisco, California, USA.

67. **Kenett, Y. N.**, Betzel, R. F., & Beaty, R. E. (2019). Community structure of the creative brain at rest. *Poster presented at the Annual meeting of the Society for Neuroscience of Creativity*. San Francisco, California, USA.

68. Ovando-Tellez, M., Bernard, M., **Kenett, Y. N.,** Benedek, M., & Volle, E. (2019). Building individual semantic networks and exploring their relation to creative abilities. *Poster presented at the Annual meeting of the Society for Neuroscience of Creativity*. San Francisco, California, USA.

69. Dahdah, P., Forthmann, B., **Kenett, Y. N**., Beisemann, M., & Holling, H. (2019). Cognitive Correlates of Performance on the Remote Associates Test: A Meta-Analysis. *Poster presented at the Annual meeting of the Society for Neuroscience of Creativity*. San Francisco, California, USA.

70. Matheson, H. E., LePage, A., & **Kenett, Y. N** (2019). Investigating the mechanisms of divergent thinking: the relationship between environmental context and body posture. *Poster presented at the Annual meeting of the Society for Neuroscience of Creativity*. San Francisco, California, USA.

71. Silverman-Lloyd, E., Knudson, K. S. Bookheimer, S., **Kenett, Y. N**., & Bilder R. M. (2019). Risk-taking, openness, and latent semantic processes in convergent creative thinking. *Poster presented at the Annual Meeting of the International Neuropsychological Society*. New York, NY, USA.

72. Valtierra, G. M., Knudson, K. S., **Kenett, Y. N.,** Bookheimer, S., & Bilder R. M. (2019). Schizotypy and semantic distance in convergent creative *thinking. Poster presented at the Annual Meeting of the International Neuropsychological Society*. New York, NY, USA.

73. Liebeskind, A., Knudsen, K. S., **Kenett, Y. N.,** Bookheimer, S., & Bilder R. M. (2019). Working memory and latent semantic processes in convergent creative thinking. *. Poster presented at the Annual Meeting of the International Neuropsychological Society*. New York, NY, USA.

74. **Kenett, Y. N**. (2018). The role of semantic memory structure in creativity: a network science approach. *Talk given at CreaCogMod*. Madison, WI, USA.

75. **Kenett, Y. N**. (2018b). Investigating creativity from a semantic network perspective. *Talk Given at the Psychology & Society Group Meeting*. Webster University, Geneva, Switzerland.

76. **Kenett, Y. N.,** Rosen, D. S., Tamez, E. R., & Thompson-Schill, S. L. (2018). Increasing cognitive control abilities inhibit creative responses, but only if they are not too "far away": A tDCS study. *Poster presented at the 25th Annual Meeting of the Cognitive Neuroscience Society*. Boston, Massachusetts, USA.

77. Graves, K. N., **Kenett, Y. N.,** & Thompson-Schill, S. L. (2018). Verbal creativity and the time course of homograph pun processing. *Poster presented at the Annual meeting of the Society for Neuroscience of Creativity*. Boston, Massachusetts, USA.

78. **Kenett, Y. N**. (2018a). Investigating creativity from a semantic network perspective. *Talk given at the PNI-Intel meeting*. Princeton University, Princeton, NJ, USA.

79. **Kenett, Y. N.,** Kaloustian, Z., & Thompson-Schill, S. L. (2017). How using concepts changes them: A graph theory approach. *Poster Presented at the 2017 Society for Neurobiology of Language Annual Meeting*. Baltimore, Maryland, USA.

80. **Kenett, Y. N.** (2017b). The role of semantic memory in the creative process: A graph theoretical research. *Talk given at the Department of Psychology.* Southwest University, Chongqing, China.

81. **Kenett, Y. N.** (2017c). Creativity from a network control theory perspective. *Talk given at the 125th APA Annual Convention*. Washington DC, USA.

82. **Kenett, Y. N.** (2017d). Investigating creativity through a semantic network lens. *Talk given at the 125th APA Annual Convention*. Washington DC, USA.

83. **Kenett, Y.** N., & Thompson-Schill, S. L. (2017). Dynamic effects of conceptual combination on semantic network structure. *Talk given at the 39th Annual Meeting of the Cognitive Science Society*. London, UK.

84. Sarathy, V., Scheutz, M., **Kenett, Y. N.,** Allaham, M. M., Austerweil, J. L., & Malle, B. F. (2017). Mental representations and computational modelling of context-specific human norm systems. *Talk given at the 39th Annual Meeting of the Cognitive Science Society*. London, UK.

85. **Kenett, Y. N.** (2017e). The role of modularity in semantic memory structure. *Talk given at the Cognitive Network Science 2017*. Indianapolis, Indiana, USA.

86. **Kenett, Y. N.**, Levy, O., Kenett, D. Y., Stanley, H. E., Faust, M., & Havlin, S. (2017c). Flexibility of thought in creative individuals: A percolation analysis. *Talk given at the Cognitive Network Science 2017*. Indianapolis, Indiana, USA.

87. **Kenett, Y. N.**, Levy, O., Kenett, D. Y., Stanley, H. E., Faust, M., & Havlin, S. (2017b). Flexibility of thought in creative individuals: A percolation analysis *Poster presented at the Society for Neuroscience of Creativity Annual Meeting*. San Francisco, California, USA.

88. Matheson, H. **Kenett, Y. N.,** & Thompson-Schill, S. L. (2017). A novel coding scheme for assessing responses in an alternative uses task: An embodied approach. *Poster presented at the Society for the Neuroscience of Creativity Annual Meeting*. San Francisco, California, USA.

89. Levy, O., **Kenett, Y. N.**, Kenett, D. Y., Stanley, H. E., Faust, M., & Havlin, S. (2017). Flexibility of thought in creative individuals: A percolation analysis. *Poster presented at CompleNet'17*. Dubrovnik, Croatia.

90. **Kenett, Y. N.**, Levy, O., Kenett, D. Y., Stanley, H. E., Faust, M., & Havlin, S. (2017a). Flexibility of thought in creative individuals: A percolation analysis. *Poster presented at NetSci-X 2017*. Tel-Aviv, Israel.

91. Kenett, Y. N. (2016). Clinical Cognitive Networks. *Talk given at the Department of Cognitive, Linguistic, and Psychological Sciences*. Brown University, Providence, RI, USA.

92. **Kenett, Y. N.**, Allaham, M. M., Austerweil, J. L., & Malle, B. F. (2016). The Norm Fluency Task: Unveiling the Properties of Norm Representation. *Poster presented at the Psychonomic Society 57th Annual Meeting*. Boston, MA, USA.

93. **Kenett, Y. N.**, Anaki, D., & Faust, M. (2016). Measuring semantic distance as path length: a graph theory approach. *Poster presented at the Psychonomic Society 57th Annual Meeting*. Boston, MA, USA.

94. **Kenett, Y. N.**, & Austerweil, J. L. (2016). Examining search processes in low and high creative individuals with random walks. *Poster presented at the 38th Annual Meeting of the Cognitive Science Society*. Philadelphia, PA, USA.

95. Zemla, J., **Kenett, Y. N.**, Jun, K.-S., & Austerweil, J. L. (2016). U-INVITE: Estimating individual semantic networks from fluency data. *Talk given at the 38th Annual Meeting of the Cognitive Science Society*. Philadelphia, PA, USA.

96. **Kenett, Y. N.**, Anaki, D., & Faust, M. (2015c). A neurocognitive structural account of individual differences in semantic creativity. *Poster presented at the 123rd APA Annual Convention*. Toronto, Canada.

97. **Kenett, Y. N.**, Anaki, D., & Faust, M. (2015b). The structure of semantic memory differentiates between low and high creative persons. *Poster presented at the 2nd Israeli Conference on Cognitive Research*. Akko, Israel.

98. **Kenett, Y. N.**, Anaki, D., & Faust, M. (2015a). A neurocognitive structural account of individual differences in semantic creativity. *Talk given at the Challenges in the Frontiers of Brain and Cognition Research*. Rehovot, Israel.

99. **Kenett, Y. N.**, Gold, R., & Faust, M. (2014). The hyper-modular associative mind: A computational analysis of associative responses of persons with Asperger syndrome. *Poster presented at the International Neuropsychological Society 2014 Mid-Year Meeting*. Jerusalem, Israel.

100.   **Kenett, Y. N.**, Anaki, D., & Faust, M. (2014). Investigating individual differences in semantic creativity - a multidisciplinary research. *Talk given at Free-will: Philosophy meets neuroscience symposium*. Bar-Ilan University, Israel.

101.   **Kenett, Y. N.**, Anaki, D., & Faust, M. (2014). Investigating the Asperger (network) rigidity of thought. *Talk given at the Israeli Forum for Neuropsychoanalysis*. Tel-Aviv, Israel.

102.   **Kenett, Y. N.**, Anaki, D., & Faust, M. (2014). The structure of semantic memory differentiates between low and high creative persons. *Poster presented at the First Israeli Conference in Cognitive Science*. Akko, Israel.

103.   **Kenett, Y. N.**, Gold, R., & Faust, M. (2013). The hyper-modular associative mind: A computational analysis of associative responses of persons with Asperger syndrome. *Poster presented at the Psychonomic Society 54th Annual Meeting*. Toronto, Ontario, Canada.

104.   Borodkin, K., **Kenett, Y. N.**, Faust, M., & Mashal, N. (2013). When shark is closer to bat than to whale: The structure of second language lexicon. *Poster presented at the Annual Conference of the Society for the Neurobiology of Language*. San Diego, CA, USA.

105.   **Kenett, Y. N.**, Anaki, D., & Faust, M. (2013b). The role of the non-specialized hemisphere in the creative processing of unconventional visual stimuli. *Poster presented at the Psychonomic Society 54th Annual Meeting*. Toronto, Ontario, Canada.

106.   **Kenett, Y. N.**, Anaki, D., & Faust, M. (2013a). Dr. Expert and Mr. Creative: The role of the non-specialized hemisphere in the creative process. *Talk given at the Gonda Brain Research Center Annual retreat*. Kfar-Giladi, Israel.

107.   **Kenett, Y. N.**, Anaki, D., & Faust, M. (2012b). Investigating semantic networks: A computational analysis of association clouds. *Talk given at the International Conference on Thinking*, London, UK.

108.   **Kenett, Y. N.**, Anaki, D., & Faust, M. (2012a). Global and local features of semantic networks: Evidence from the Hebrew mental lexicon. *Talk given at the Gonda Brain Research Center Annual retreat*. Ein-Gedi, Israel.

Professional Services

2023 - Member of the program committee of the workshop "Mind meets media: Unraveling the impact of social media on human behavior". The 23rd IEEE International Conference on Data Mining. Shanghai, China.

2021 – present – Faculty representative of the Technion academic safety committee.

2021 – Member of the scientific committee for the satellite conference, Complexity and Cognition. Conference on Complex Systems 2021.

2020 – present – Executive committee member, the Society for the Neuroscience of Creativity

2020 – Member of the scientific committee for the satellite conference, Complexity and Cognition. Conference on Complex Systems 2020.

2020 – Co-chair of the *Society for Neuroscience of Creativity annual meeting*. Virtual meeting.

2019 – *Habilitation a Diriger des Recherches* committee member. Brain and Spine Institute (ICM), Paris, France.

2019 – Organized the *Cognitive networks: From theory to practice* workshop. Pennsylvania State University, State College PA, USA.

2019 – Co-organized the *Cognitive Network Science 2019 satellite conference*. The 2019 Annual Meeting of the Network Science Society, Burlington VT, USA.

2018 – Member of the program committee of the symposium on the Computational Methods and Systems for the Cognitive Modelling and Support of Creativity and Creative Problem Solving. The 40th Annual Meeting of the Cognitive Science Society, Madison WI, USA.

2017 – 2020 – Organizing committee member, the Society for the Neuroscience of Creativity

2017 – present **–** Member of the program committee of the conference on complex networks and their applications.

2017 – Co-organized *the Cognitive Network Science 2017 satellite conference*.

2012 – 2013 – Organized the Gonda brain research center Graduate Students Seminar.

Editorial roles

2023 – 2024 – Guest Editor of special topic "Network Science in Experimental Psychology" in the journal *Canadian Journal of Experimental Psychology.*

2023 – 2024 – Associate Editor, *Canadian Journal of Experimental Psychology*.

2022 – present – Associate Editor, *Creativity Research Journal*.

2020 – 2022 – Associate Editor of the special issue "Is the mind a network? How Using Network Science Elucidates Our Understanding of Cognition" in the journal *Topics in Cognitive Science.*

2020 – present – Editorial review board, *Creativity Research Journal.*

2020 – 2022 – Co-guest editor of special topic "Knowledge modelling and learning through cognitive networks" in the journal *Big Data and Cognitive Computing*.

2019 – present – Review Editor for *Frontiers in Psychology – Theoretical and Philosophical Psycholog*y.

2018 – 2020 – Lead guest editor of special topic "Cognitive Network Science: A New Frontier" in the journal *Complexity*.

Ad-hoc reviewer

Acta Psychologica; Applied Cognitive Psychology; Applied Network Science; Behavior Research Methods; Bilingualism – Language and Cognition; Biological Psychology; Brain and Cognition; Brain and Language; Canadian Journal of Experimental Psychology; Cerebral Cortex; Cortex; Cognitive, Affective, and Behavioral Neuroscience; Cognitive Neuroscience; Cognitive Science; Creativity Research Journal; EuroPhysics Letters; Frontiers in Psychology; Human Brain Mapping; Journal of Autism and Developmental Disorders; Journal of Cognitive Psychology; Journal of Communication Disorders; Journal of Creative Behavior; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of intelligence; Journal of the International Neuropsychological Society; Language and Speech; Memory; Memory and Cognition; Nature Communications; Network Neuroscience; NeuroImage; Neuropsychologia; Neuroscience; Personality and Individual Differences; Personality and Social Psychology Bulletin; PLoS ONE; PNAS; Psychological Reports; Psychological Science; Psychology of Aesthetics, Creativity, and the Arts; Psychology & Neuroscience; Psychonomic Bulletin & Review; Psychophysiology; Scientific Reports; Social, Cognitive, and Affective Neuroscience; Thinking & Reasoning; Trends in Cognitive Sciences.

Teaching Experience

2023 – present - Technion: Advanced Cognitive Sciences, 098666

2021 – present – Technion: Creativity: mind, brain, organization 098292

2020 – present – Technion: Psychological and Cognitive Networks 096693

2019 – **Drexel University:** Computer-based research methods for psychological research

Mentoring Experience

Ph.D. Students:

2022 – present - Ke Ding

2023 – present - Tuval Raz

M.Sc. Students:

2023 – present – Ophir Ganor

2022 – present – Gal Sasson

2022 – present – Ariel Kreisberg-Nitzav

2022 – present – Maya Pery

2021 – 2023 - Tuval Raz

2021 – 2023 – Shaked Fried

2021 – 2023 - Talia Wise

2021 – 2023 - Alon Tsaizel

2020 – 2022 - Noam Gooz (co-supervised with Rakefet Ackerman)

2020 – 2022 - Gal Samuel

2020 – 2022 - Ruth Levav (co-supervised with Kinneret Teodorescu)

2020 – 2022 - Adi Ezer (co-supervised with Anat Rafaeli)

Membership in Professional and Scientific Societies

American Psychological Association **–** Member

Cognitive Neuroscience Society **–** Member

Cognitive Science Society **–** Member

Psychonomic Society **–** Fellow

Society for the Neuroscience of Creativity – Executive Committee Member

International Society for the Study of Creativity and Innovation – Full Member