

# Refereed Publications

*Papers are published under Dr. Ackerman's full name, Margareta Ackerman. Students co-authors are marked with an \*.*

- Lee Cheatley, M. Ackerman, Alison Pease, Wendy Moncur. Musical Creativity Support Tools for Bereavement Support. Digital Creativity, 2022.
- Alison Pease, M. Ackerman, Nic Pease and Bernadette McFadden. A Roadmap for Therapeutic Computational Creativity. International Conference on Computational Creativity (ICCC), 2022.
- Juliana Shihadeh\*, M. Ackerman, Ashley Troske\*, Nicole Lawson\*, and Edith Gonzalez\*. Brilliance Bias in GPT-3. IEEE Global Humanitarian Technology Conference (IEEE GHTC), 2022.
- Christopher Cassion\*, M. Ackerman, and Anna Jordanous. Humble Creative Machines. International Conference on Computational Creativity (ICCC), 2021.
- Kuakou Bossou\* and M. Ackerman. Should Machines Evaluate Us? Opportunities and Challenges. International Conference on Computational Creativity (ICCC), 2021.
- Lauryn Gayhardt\* and Maya Ackerman. SOVIA: Sonification of Visual Interactive Art. International Conference on Computational Creativity (ICCC), 2021.
- Juliana Shihadeh\* and M. Ackerman. MIST: "You Play, I'll Draw". International Conference on Computational Creativity (ICCC), 2021.
- M. Ackerman, Shai Ben-David, Simina Branzei, David Loker. Weighted Clustering: Towards Solving the User's Dilemma. Pattern Recognition, 2021.

- Christopher Cassion\*, Yuhang Qian\*, Constant Bossou\*, and M. Ackerman. Investors Embrace Gender Diversity, Not Female CEOs: The Role of Gender in Startup Fundraising. EAI International Conference on Intelligent Technologies for Interactive Entertainment, 2020.
- Jun Chang\* and M. Ackerman. A Climate Change Educational Creator. International Conference on Computational Creativity (ICCC), 2020.
- Juliana Shihadeh\* and M. Ackerman. EMILY: An Emily Dickinson Machine. International Conference on Computational Creativity (ICCC), 2020.
- Rafael Perez y Perez and M. Ackerman. Towards a Methodology for Field Work in Computational Creativity. *New Generation Computing*, 2020.
- Lee Cheatley, M. Ackerman, Alison Pease, Wendy Moncur. Co-Creative Songwriting for Bereavement Support. International Conference on Computational Creativity (ICCC), 2020.
- M. Ackerman and Rafael Perez y Perez. Field Work in Computational Creativity. International Conference on Computational Creativity (ICCC), 2019.
- Andreas Adolfsson\*, M. Ackerman, and Naomi Brownstein. To Cluster, or Not to Cluster: How to Answer the Question. *Pattern Recognition*, 2019.
- Rachel Goldstein\*, Andy Vainauskas, Margareta Ackerman, and Robert Keller. Brain-Controlled Improvisation. International Conference on Computational Creativity (ICCC), 2019.
- Hugo Oliveira, Tiago Mendes, Ana Boavida, Ai Nakamura\*, and M. Ackerman. Co-PoeTryMe: Interactive Poetry Generation. *Cognitive Systems Research*, 2019.

- Naomi C. Brownstein, Andreas Adolfsson\*, and M. Ackerman. Descriptive statistics and visualization of data from the R datasets package with implications for clusterability. *Data in Brief*, 2019.
- M. Ackerman, James Morgan, and Christopher Cassion\*. Co-Creative Conceptual Art. International Conference on Computational Creativity (ICCC), 2018.
- M. Ackerman and David Loker. Algorithmic Songwriting with ALYSIA. International Conference on Computational Intelligence in Music, Sound, Art and Design (EvoMUSART), 2017.
- Divya Singh\*, M. Ackerman, and Rafael Perez y Perez. A Ballad of the Mexicas: Automated Lyrical Narrative Writing. International Conference on Computational Creativity (ICCC), 2017.
- M. Ackerman, Ashok Goel, Colin Johnson, Anna Jordanous, Carlos Leon, Rafael Perez y Perez, Hannu Toivonen, and Dan Ventura. Teaching Computational Creativity. International Conference on Computational Creativity (ICCC), 2017. Runner-up Best Paper Award.
- Amit Dhurandhar, M. Ackerman, and Xiang Wang. Uncovering Group Level Insights with Accordant Clustering. SIAM International Conference on Data Mining (SDM), 2017.
- Taylor Brockhoeft\*, Jennifer Petuch\*, James Bach\*, Emil Djerekarov\*, M. Ackerman and Gary Tyson. Interactive Augmented Reality for Dance. International Conference on Computational Creativity (ICCC), 2016.
- Jarrod Moore\* and M. Ackerman. Foundations of Perturbation Robust Clustering. IEEE International Conference on Data Mining (ICDM), 2016.

- M. Ackerman and Simina Branzei. [Authorship Order: Alphabetical or Contribution?](#) Journal of Autonomous Agents and Multi-Agent Systems, 2016.
- M. Ackerman and Shai Ben-David. [A Characterization of Linkage-Based Hierarchical Clustering](#). Journal of Machine Learning Research (JMLR) , 2016.
- M. Ackerman and Sanjoy Dasgupta. [Incremental Clustering: The Case for Extra Clusters](#). Neural Information Processing Systems Conference (NIPS), 2014.
- M. Ackerman, Dan Brown, and David Loker. [Effects of Rooting via Outgroups on Ingroup Topology in Phylogeny](#). International Journal of Bioinformatics Research and Application (IJBRA), 2014.
- M. Ackerman and Simina Branzei. [The Authorship Dilemma: Alphabetical or Contribution?](#), extended abstract, Autonomous Agents and Multiagent Systems, (AAMAS), 2014.
- M. Ackerman, Shai Ben-David, Sivan Sabato, and David Loker. [Clustering Oligarchies](#). Proceedings of the Twelfth International Conference on Artificial Intelligence and Statistics (AISTATS), 2013.
- Hossein Vahabi, M. Ackerman, David Loker, Ricardo Baeza-Yates and Alejandro Lopez-Ortiz. [Orthogonal Query Recommendation](#). ACM Conference on Recommender Systems (ACM Recsys), 2013.
- M. Ackerman, Shai Ben-David, Simina Branzei, and David Loker. [Weighted Clustering](#). Proc. 26th AAAI Conference on Artificial Intelligence, 2012. [slides]
- M. Ackerman, Dan Brown, and David Loker. [Effects of Rooting via Outgroups on Ingroup Topology in Phylogeny](#). IEEE International Conference on Computational Advances in Bio

and Medical Sciences (ICCABS 2012). Journal version in BMC Genomics upcoming.

- Joshua Lewis, Margareta Ackerman, and Virginia De Sa. [Human Cluster Evaluation and Formal Quality Measures](#). Proc. 34th Annual Conference of the Cognitive Science Society, 2012.
- M. Ackerman and Shai Ben-David. [Discerning Linkage-Based Algorithms Among Hierarchical Clustering Methods](#). International Joint Conference on Artificial Intelligence (IJCAI 2011). (Presentation acceptance rate: 17%).
- M. Ackerman, Shai Ben-David, and David Loker. [Towards Property-Based Classification of Clustering Paradigms](#). Neural Information Processing Systems Conference (NIPS 2010). [[Appendix](#)]
- M. Ackerman, Shai Ben-David, and David Loker. [Characterization of Linkage-Based Clustering](#). 23rd International Conference on Learning Theory (COLT 2010).
- M. Ackerman and Shai Ben-David. [Clusterability: A Theoretical Study](#). Proceedings of the Twelfth International Conference on Artificial Intelligence and Statistics (AISTATS 2009) , JMLR: 5, pp. 1-8. (Presentation acceptance rate: 10%).
- M. Ackerman and Erkki Makinen. [Three New Algorithms for Regular Language Enumeration](#), Computing and Combinatorics: 15th Annual International Conference (COCOON) , Lecture Notes in Computer Science 5609, Springer-Verlag, Berlin Heidelberg, pp. 178-191, 2009.
- M. Ackerman and Jeffrey Shallit. [Efficient Enumeration of Words in Regular Languages](#). Theoretical Computer Science (2009) V. 410 (37), Elsevier, pp. 3461-3470.

- M. Ackerman and Shai Ben-David. [Measures of Clustering Quality: A Working Set of Axioms for Clustering](#). Neural Information Processing Systems Conference (NIPS 2008) (full oral presentation, acceptance rate: 2.7%)
- M. Ackerman and Jeffrey Shallit. [Efficient Enumeration of Regular Languages](#). Conference on Implementation and Application of Automata (CIAA) , Lecture Notes in Computer Science, 4783, Springer-Verlag, Berlin Heidelberg, pp. 226-241, 2007.
- Daniel Maoz and M. Ackerman, “Chavruta and Transformative Learning: A Comparative Analysis,” in Opportunities and New Directions: Canadian Scholarship of Teaching and Learning (Edited by N. Simmons. Waterloo: CTE, 2010) pp. 51-59.
- Daniel Maoz and M. Ackerman. “Chavruta: A Novel Teaching Methodology Based on an Ancient Tradition.” From Antiquity to the Post-Modern World: Contemporary Jewish Studies in Canada. Newcastle upon Tyne: Cambridge Scholars Publishing, 193-205, 2011.

### **Refereed Workshops**

- Andreas Adolfsson, Jonathan Bernal, M. Ackerman and Julia Scott. [Musical Mandala Mindfulness: A Generative Biofeedback Experience](#). Musical Metacreation, 2019.
- Margareta Ackerman. [Towards Theoretical Foundations of Clustering](#). Grace Hopper Celebration (GHC), 2011.
- Margareta Ackerman, Shai Ben-David, and David Loker. Characterization of Linkage-Based Clustering. NIPS workshop “Clustering: Science or Art? Towards Principled Approaches.”, 2009.