DIY Tools for Grad Program Assessment

An Approach and Some Examples

Rick Dale
CIS Grad Chair
cogsci.ucmerced.edu / cognaction.org/rick

program

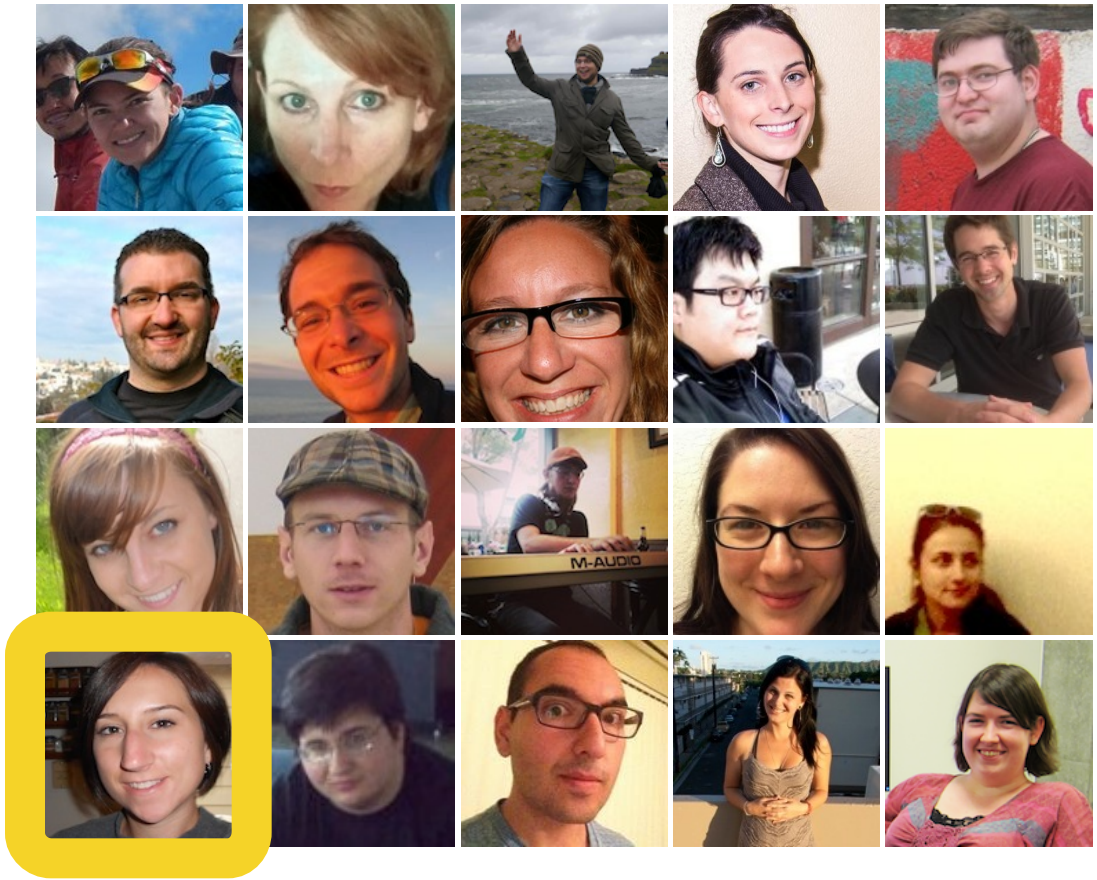
Graduate *v* Assessment

program

Graduate *v* Assessment

program

Graduate *v* Assessment



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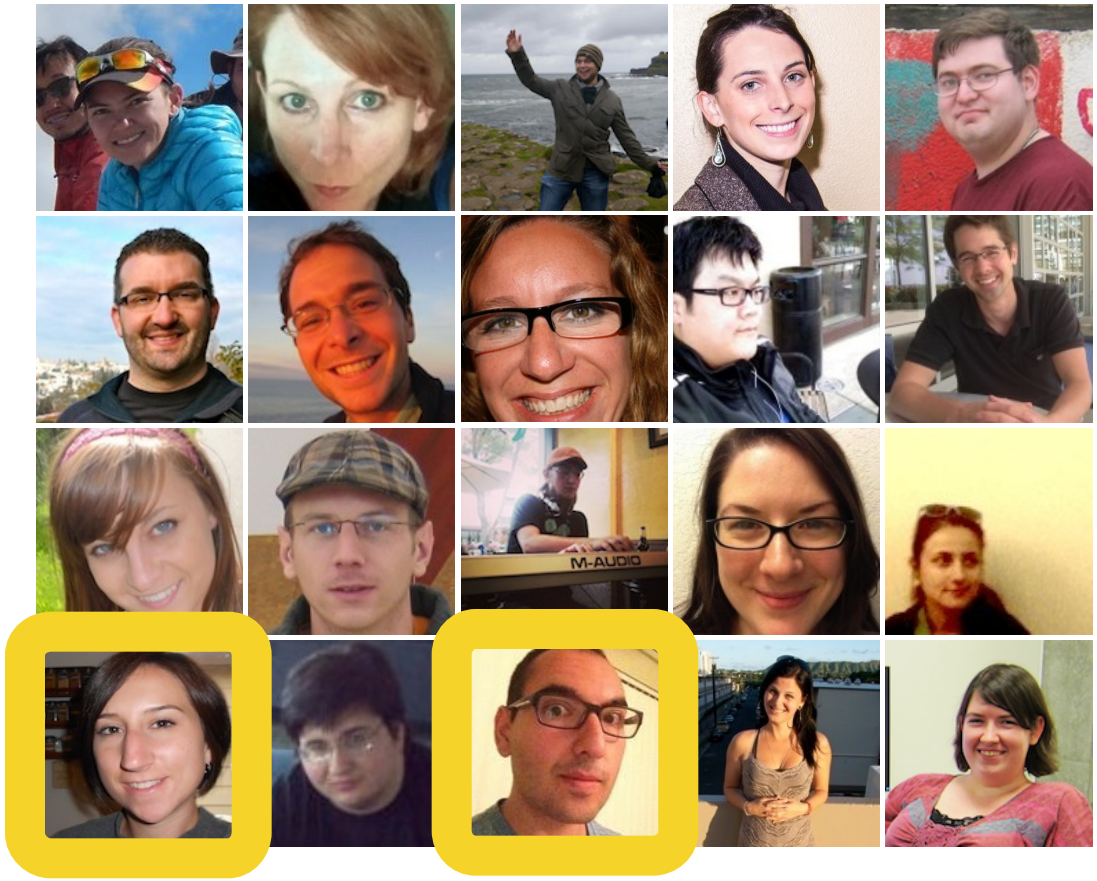
Graduate *v* Assessment



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Graduate *v* Assessment

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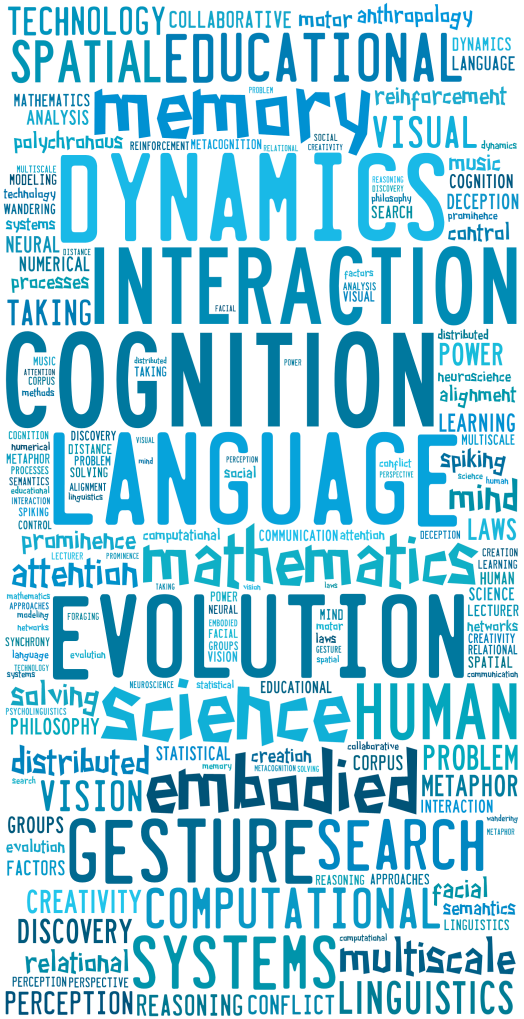
Graduate Assessment



PLO 1: Understanding foundational concepts in cognitive and information sciences.
PLO 2: Skillful use of foundational methods in cognitive and information sciences.
PLO 3: Scientific communication skills.
PLO 4: Ability to integrate knowledge across the disciplines that compose cognitive and information sciences.
PLO 5: Expertise in a specific scientific domain.

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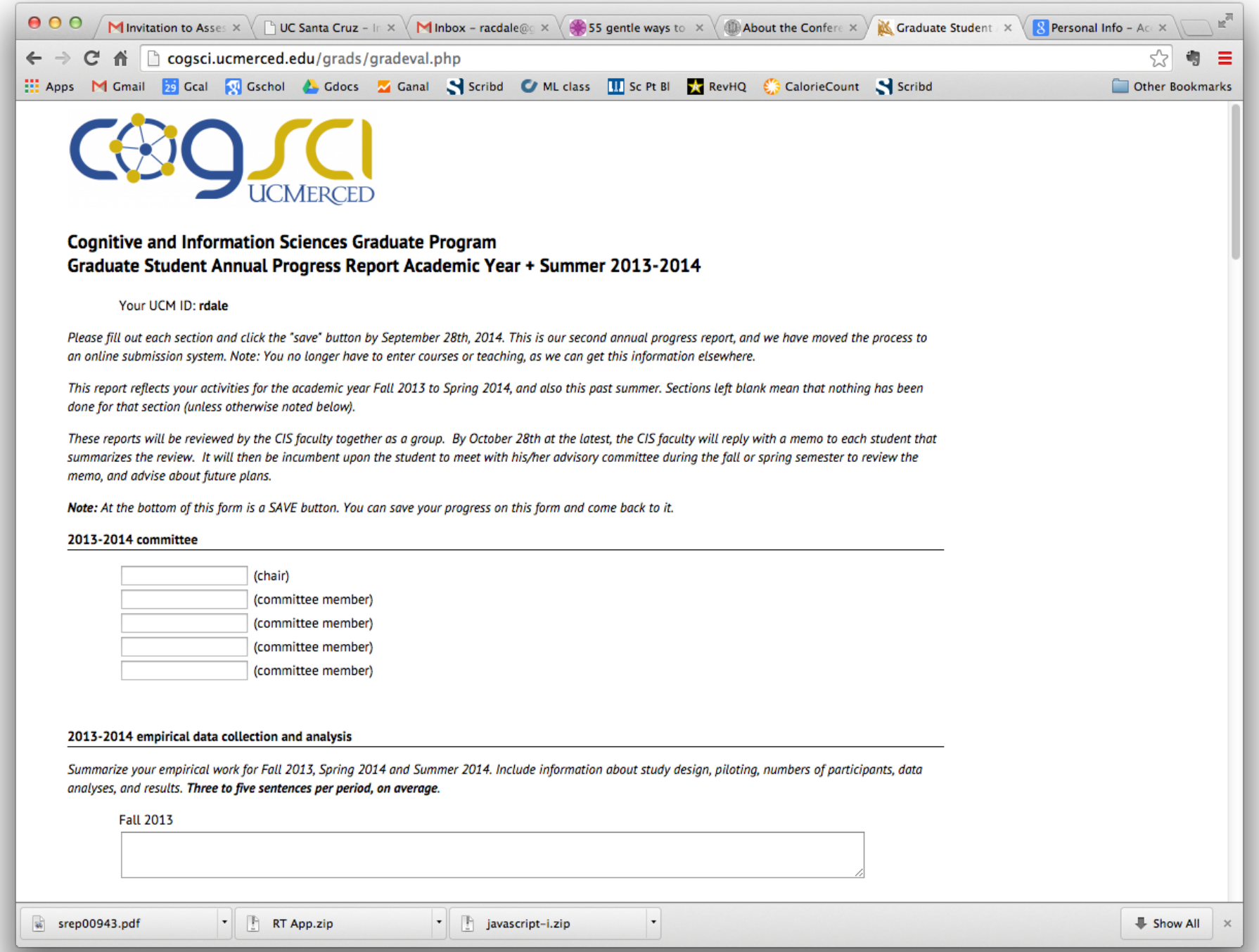
training in scientific research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Cognitive and Information Sciences Graduate Program
Graduate Student Annual Progress Report Academic Year + Summer 2013-2014
Your UCM ID: rdale
Please fill out each section and click the "save" button by September 28th, 2014. This is our second annual progress report, and we have moved the process to an online submission system. Note: You no longer have to enter courses or teaching, as we can get this information elsewhere.
This report reflects your activities for the academic year Fall 2013 to Spring 2014, and also this past summer. Sections left blank mean that nothing has been done for that section (unless otherwise noted below).
These reports will be reviewed by the CIS faculty together as a group. By October 28th at the latest, the CIS faculty will reply with a memo to each student that summarizes the review. It will then be incumbent upon the student to meet with his/her advisory committee during the fall or spring semester to review the memo, and advise about future plans.
Note: At the bottom of this form is a SAVE button. You can save your progress on this form and come back to it.
2013-2014 committee
(chair)
(committee member)
(committee member)
(committee member)
(committee member)
2013-2014 empirical data collection and analysis
Summarize your empirical work for Fall 2013, Spring 2014 and Summer 2014. Include information about study design, piloting, numbers of participants, data analyses, and results. Three to five sentences per period, on average.
Fall 2013
srep00943.pdf
RT App.zip
javascript-i.zip
Show All

writing.txt

chap Abney, D. H., Warlaumont, A. S., Wallot, S., Haussmann, A., Ross, J. (writing). A case study of embodied development: Non-linear methods on infant motor/vocalizations. Book Chapter
chap Matlock, T. & Winter, T. (in press). Experimental semantics. In B. Heine & H. Narrog (Eds.), The Oxford Handbook of Linguistic Analysis.
chap Matlock, Teenie and Till Bergmann (submitted). "Fictive Motion". In: Dabrowska, Ewa and Dagmar Divjak (eds.), Handbook of Cognitive Linguistics. DeGruyter Mouton.
chap Spivey, M. and Holman, D. "Connectionist Models of Bilingual Word Reading." In Heredia, R., Methods in Bilingual Reading Comprehension Research. Under review.
chap Vinson D. W., Dale R., Tabatabaeian, M. & Duran, N. D. (Submitted). Seeing and Believing: Social Influences on Language Processing. Book Chapter.
jour+ Abney, D.H. McBride, D.M., Petrella, S.N. (2013). Interactive effects in transfer-appropriate processing for event-based prospective memory. Memory & Cognition.
jour+ Abney, D.H., Wagman, J.B., & Schneider, J. (accepted). Changing grasp position on a wielded object provides self-training for perception of length. Attention, Perception, & Psychophysics.
jour+ Bentz, C., & Winter, B. (2013). Languages with more second language learners tend to lose nominal case. Language Dynamics & Change, 3:1, 1-27.
jour+ Dale, R. & Vinson, D.W. (2013). The Observerâ€™s Observerâ€™s Paradox. Journal Of Experimental And Theoretical Artificial Intelligence.
jour+ Huberty, J.L., Vener, J., Gao, Y., Matthews, J.L., Ransdell, L.B., & Elavsky, S. (2013). Developing an instrument to measure physical activity related self-worth in women: Rasch analysis of the Womenâ€™s Physical Activity Self-Worth Inventory (WPASWI). Psychology of Sport & Exercise, 14, 111-121. doi:http://dx.doi.org/10.1016/j.psychsport.2012.07.009
jour+ Kello, C. T., Rodny, J., Warlaumont, A. S., & Noelle, D. C. (2012). Plasticity, Learning, and Complexity in Spiking Networks. Critical Reviewsâ„¢ in Biomedical Engineering, 40(6).
jour+ Lancia, L., & Winter, B. (2013). The interaction between competition, learning and habituation dynamics in speech perception. Laboratory Phonology, 4:1, 221-257.
jour+ Parrill, F., Bergen, B.K., & Lichtenstein, P.V. (2013). Grammatical aspect, gesture, and conceptualization: Using co-speech gesture to reveal event representations. Cognitive Linguistics, 24(1), 135-158.
jour+ Paxton, A., & Dale, R. (in press). Argument disrupts interpersonal synchrony. Quarterly Journal of Experimental Psychology.
jour+ Wagman, J.B. & Abney, D.H. (2013). Is calibration of the perception of length modality-independent? Attention, Perception, & Psychophysics.
jour+ Winter, B., & Matlock, T. (accepted). Reasoning about similarity and proximity. Metaphor & Symbol.
jour- Abney, D.H., Paxton, A., Kello, C.T., & Dale, R. (writing). Complexity matching in dyadic interaction. Article. *part of first-year project
jour- Chiu, E. M. & Spivey, M. J. (under review). Timing of speech and display affects the linguistic mediation of visual search. Perception
jour- Chiu, E. M., Quan, J., Thomas, K., Bridgeman, B., & Persike, M. (under revision). Treading a slippery slope: Slant perception in near and far space. Perception.
jour- Erickson, S. & Heit, E. (2013). Math anxious yet overconfident. Submitted to Psychological Science, April 2013.
jour- Erickson, S. & Heit, E. (2013). Metacognition, confidence, and math performance. Submitted to Psychonomic Bulletin and Review, June 2013.
jour- Fusaroli, R., Abney, D.H., Bahrami, B., Kello, C.T., Tylen, K. (writing). Performance in a joint decision task is predicted by the degree of complexity matching of interlocutors' speech events. Article.
jour- Fusaroli, R., Perlman, M., Mislove, A., Paxton, A., Matlock, T., & Dale, R. (in preparation after submitting to several publications). Real-time effects of presidential debates on social media.
jour- Greenwood, M.D., Matlock, T., Spivey, M.J., & Matthews, J.L. (under revision). Verb agency and agent descriptions influence perspective-taking in visual contexts.
jour- Rhodes, Theo; Kello, Christopher; Kerster, Bryan, (2013) Intrinsic and Extrinsic Contributions to Heavy Tails in Visual Foraging. Visual Cognition (Under Revision)
jour- Rodny, J., & Noelle, D. (Pending, Revision Under Review?). Modeling the Actor-Critic Architecture by Combining Recent Work in Reservoir Computing and Temporal Difference Learning in Complex Environments. Paper presented at Neural Computation and Psychology Workshop, San Sebastian, Spain. Place of publication Pending: World
jour- RÃ¶ttger, T., Winter, B., Grawunder, S., Kirby, J., & Grice, M. (submitted). Assessing the incomplete neutralization of final devoicing in German. Journal of Phonetics.
jour- Thompson, G., Kello, C.(under revision). Walking Across Wikipedia: A Scale-Free Network Model of Semantic Memory Retrieval. Frontiers in Language Science.
jour- Winter, B., Perlman, M., & Matlock, T. (submitted). Using space to talk and gesture about numbers: Evidence from the TV News Archive. Gesture.
prep Chiu, E. M. & Spivey, M. J. (almost ready for submission). Incremental Delivery of Target Identity (Not Preview) Improves Visual Search.
prep Paxton, A., & Dale, R. (2013). Facilitating recurrence analysis on multi-level language. arXiv:1308.2696 [cs.CL].
prep Tabatabaeian, M., Dale, R., & Duran, N. (2013). Is dishonesty an automatic tendency? First year paper
proc Bergmann, Till, Dale, Rick and Gary Lupyan (2013). "The Impact of Communicative Constraints on the Emergence of a Graphical Communication System". In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), Proceedings of the 35th Annual Conference of the Cognitive Science Society . Austin, TX: Cognitive Science Society.
proc Chiu, E. M. & Spivey, M. J. (2012). The role of preview and incremental delivery on visual search. In N. Miyake, D. Peebles, & R. P. Cooper (Eds.), Proceedings of the 34th Annual Conference of the Cognitive Science Society (pp. 216-221). Austin, TX: Cognitive Science Society.
proc Chiu, E. M. & Spivey, M. J. (2013). Incremental information processing on visual search: The critical role of delivery rate. Conference of the Cognitive Science Society. [Accepted as a poster]
proc Erickson, S. & Heit, E. (2013). Math and metacognition: Resolving the paradox. Proceedings of the 35th Annual Meeting of the Cognitive Science Society.
proc Falke, J., Winter, B. & Spivey, M. J. (2013). Candle-candle-candle-candy: Continuous attraction towards previously seen phonological competitors. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), Proceedings of the 35th Annual Conference of the Cognitive Science Society (pp. 2261-2266). Austin, TX: Cognitive Science Society.
proc Kelly, L, J. & Heit, E. (2013). Representational shifts towards the prototype in memory for hue. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), Proceeding of the 35th Annual Conference of the Cognitive Science Society. Austin, TX: Cognitive Science Society.
proc Kerster, B.E., Kello, C.T., Rhodes, T., Bien-Aimes, R.J. (2013, July) Adaptive Foraging: Effects of Resource Conditions on Search Paths in a Web-Based Foraging Game. Proceedings of the Annual Meeting of the Cognitive Science Society.
proc Paxton, A., & Dale, R. (2013). Multimodal networks of interpersonal interaction and conversational contexts. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.) Proceedings of the 35th Annual Meeting of the Cognitive Science Society. Austin, TX: Cognitive Science Society.
proc Roche, J., Paxton, A., Ibarra, A., & Tanenhaus, M. (2013). From minor mishap to major catastrophe: Lexical choice in miscommunication. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.) Proceedings of the 35th Annual Meeting of the Cognitive Science Society. Austin, TX: Cognitive Science Society.
proc St. Clair, W.B. & Noelle, D. Implications of polychronous neuronal groups for the nature of mental representations. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), Proceedings of the 35th Annual Conference of the Cognitive Science Society (pp. 1372-1377). Austin, TX: Cognitive Science Society.
proc Szary, J., & Dale, R. (in press). Dyadic cooperation enhances retrieval and recall of crossword solutions. Proceedings of the The Thirty Fifth Annual Meeting of the Cognitive Science Society. Berlin, Germany.
proc Winter, B. & Matlock, T. (2013). More is up... and right: Random number generation along two axes. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), Proceedings of the 35th Annual Conference of the Cognitive Science Society (pp. 3789-3974). Austin, TX: Cognitive Science Society.
proc Winter, B. & Matlock, T. (in press). Creativity and the sensorimotor grounding of mathematics. In Borkent, M., Dancygier, M., & Hinnell, J. (Eds.), Language and the Creative Mind. Stanford, CA: CSLI Publications.

Annual Meeting of the Cognitive Science Society ("CogSci")

premiere
interdisciplinary
cognitive science
conference

almost 1,000 presentations
1,500 attendees
hundreds of schools

information sciences.

PLO 5: Expertise in a specific scientific domain.

information sciences.

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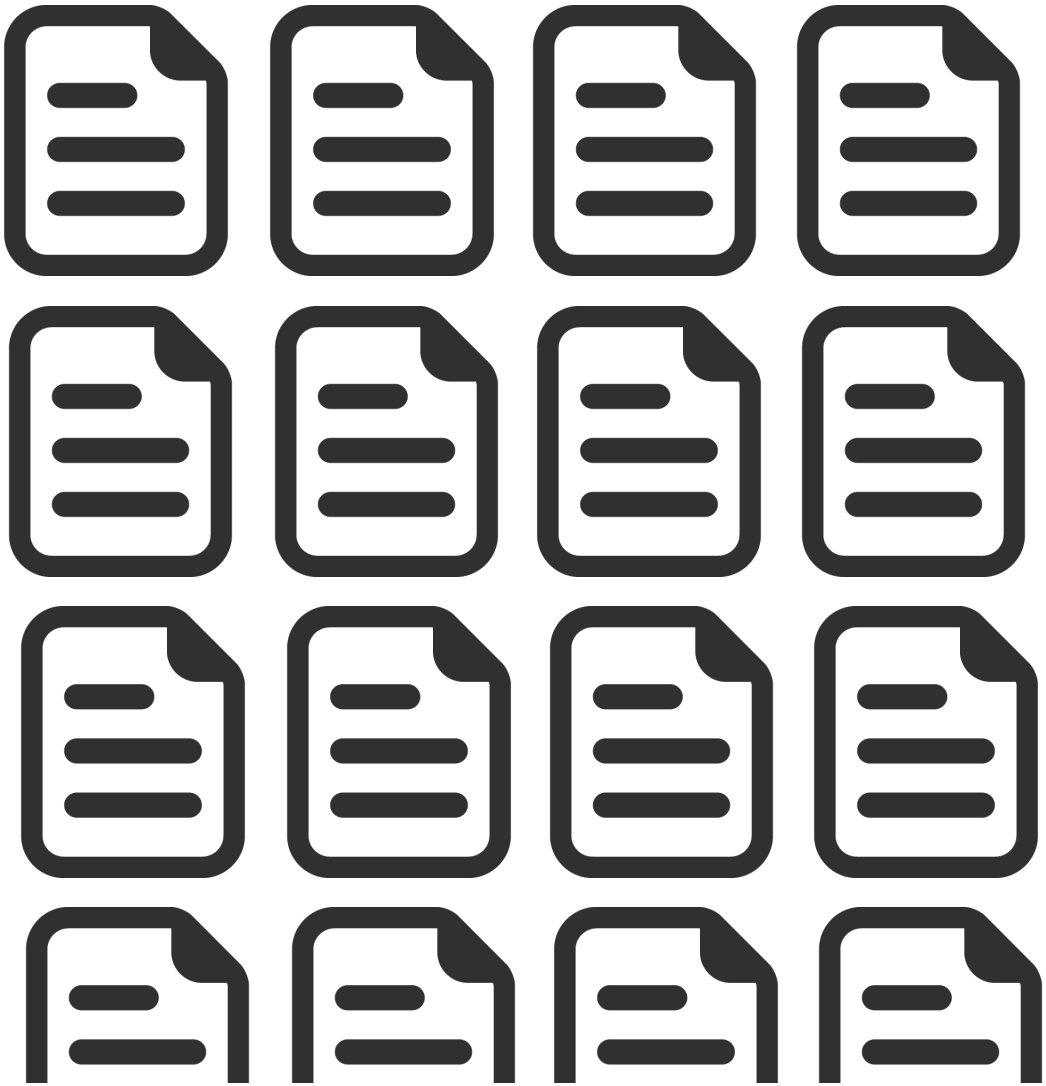
CogSci Abstracts



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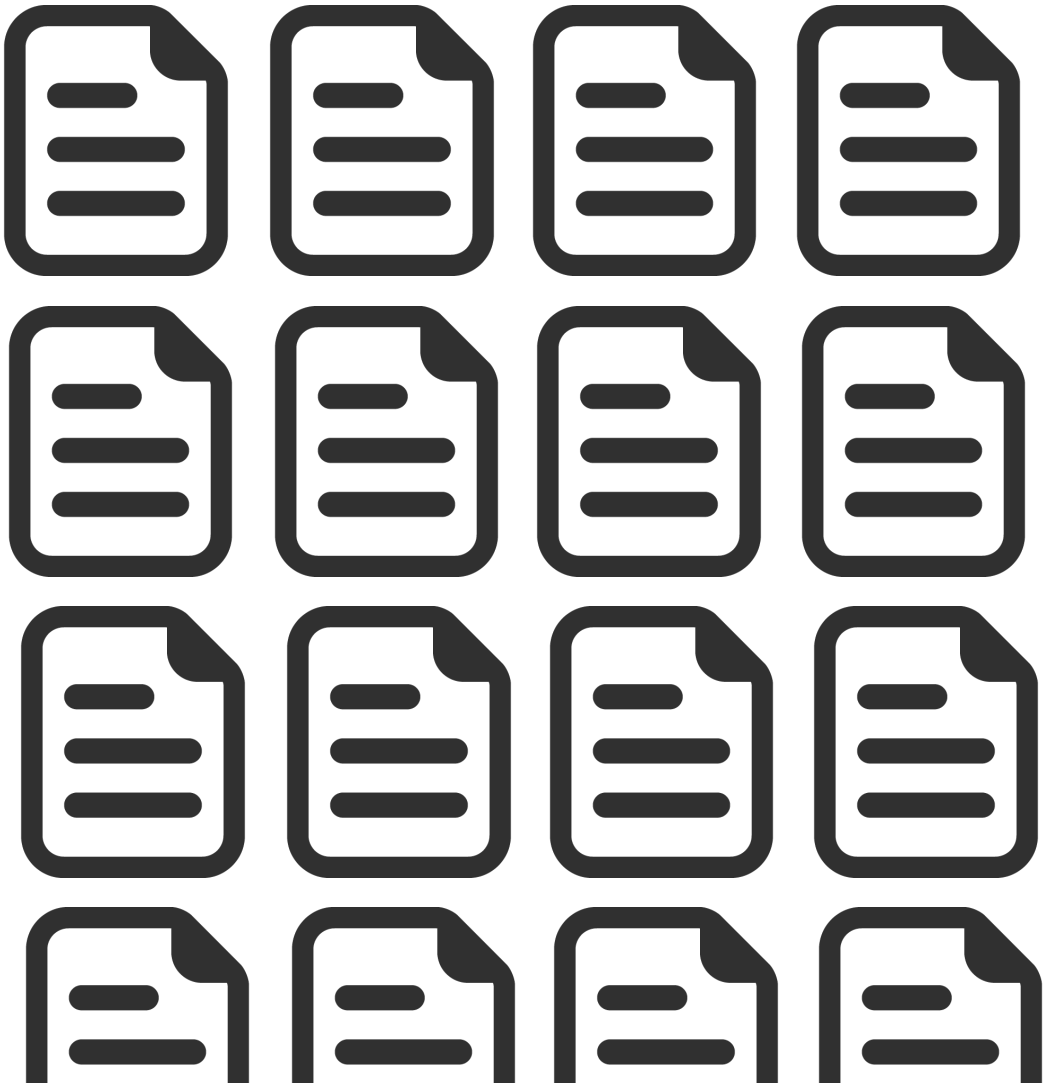

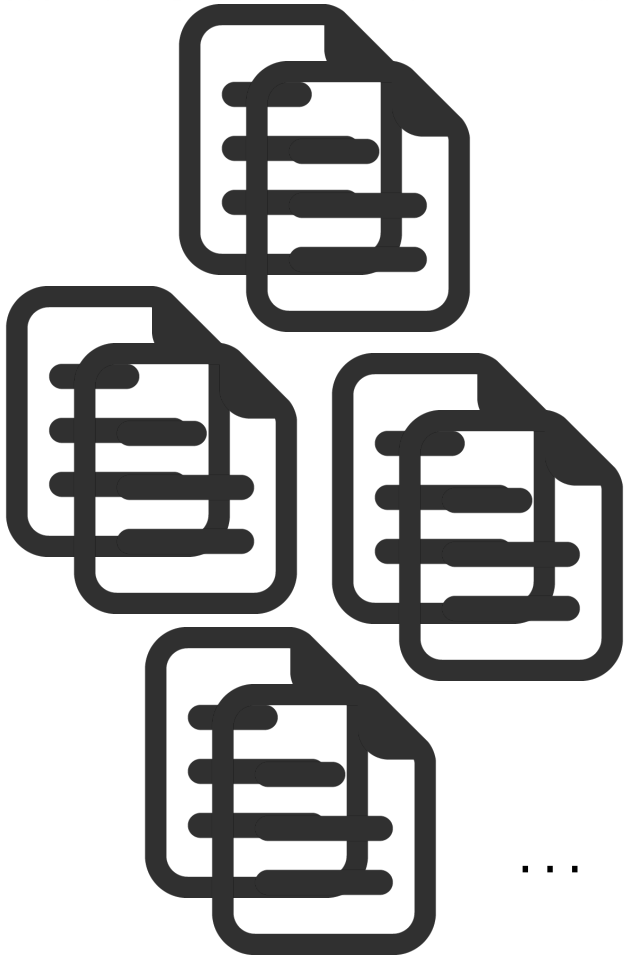

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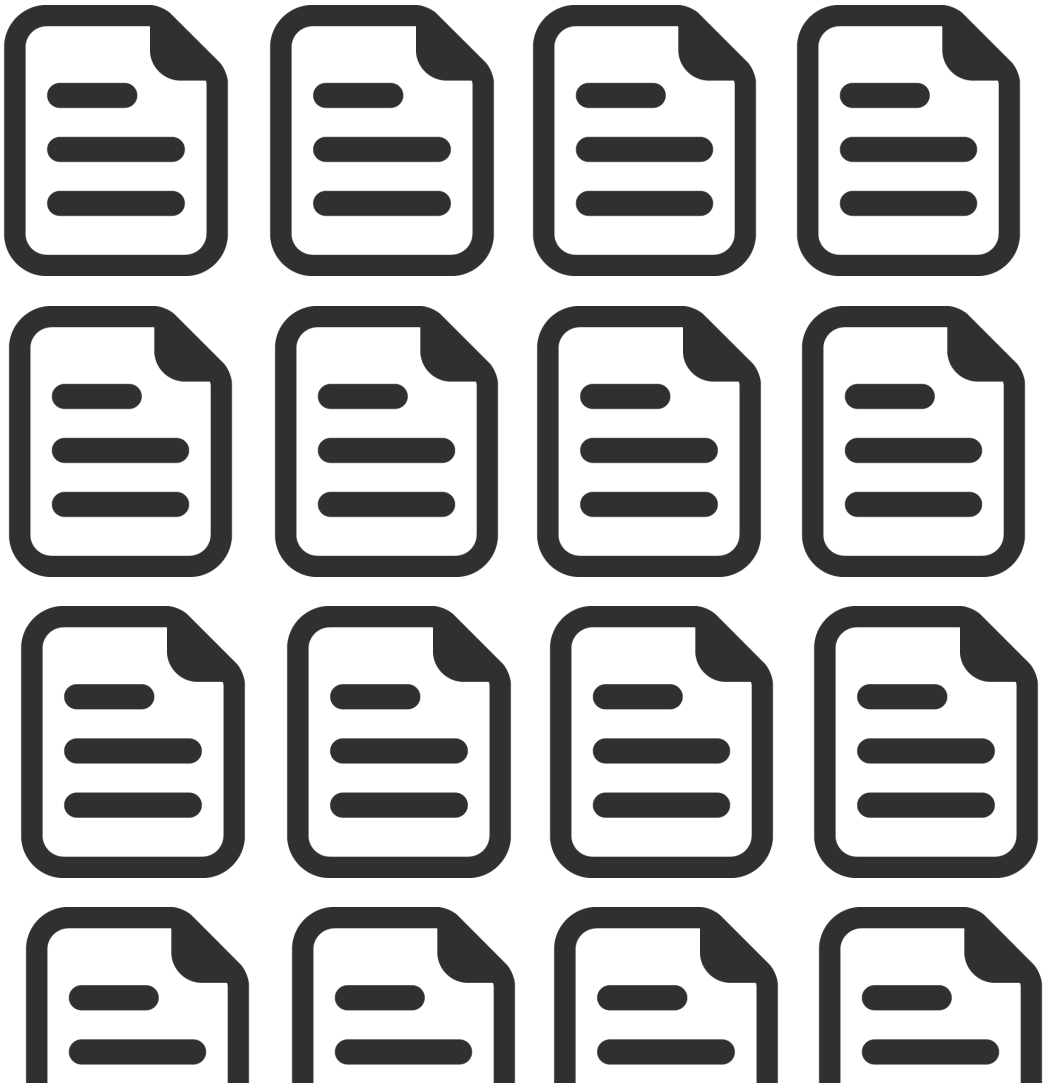

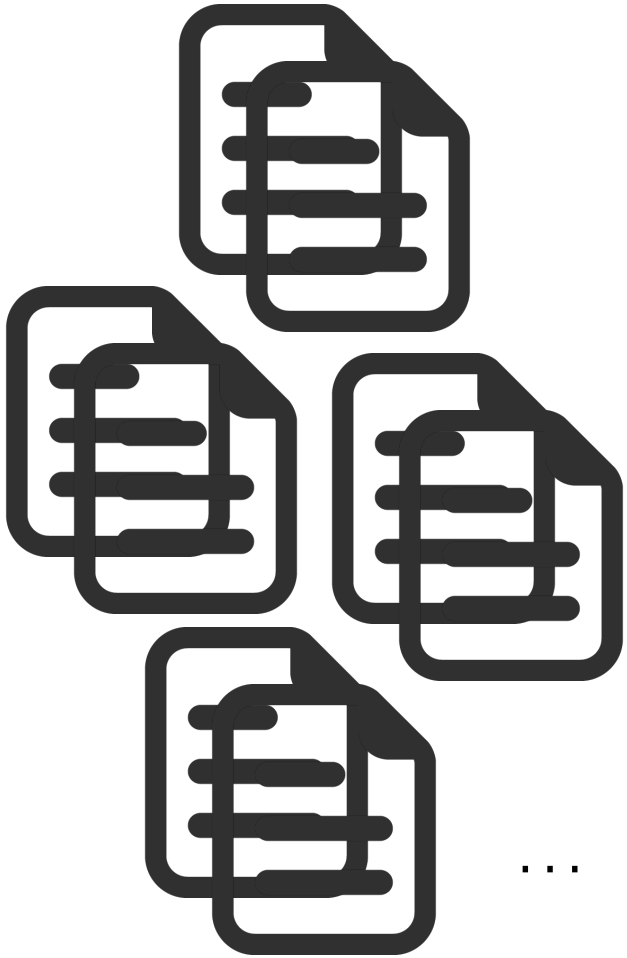

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similarity score

information sciences.

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Approach: compare similarities of
4 advanced PhD students

information sciences.

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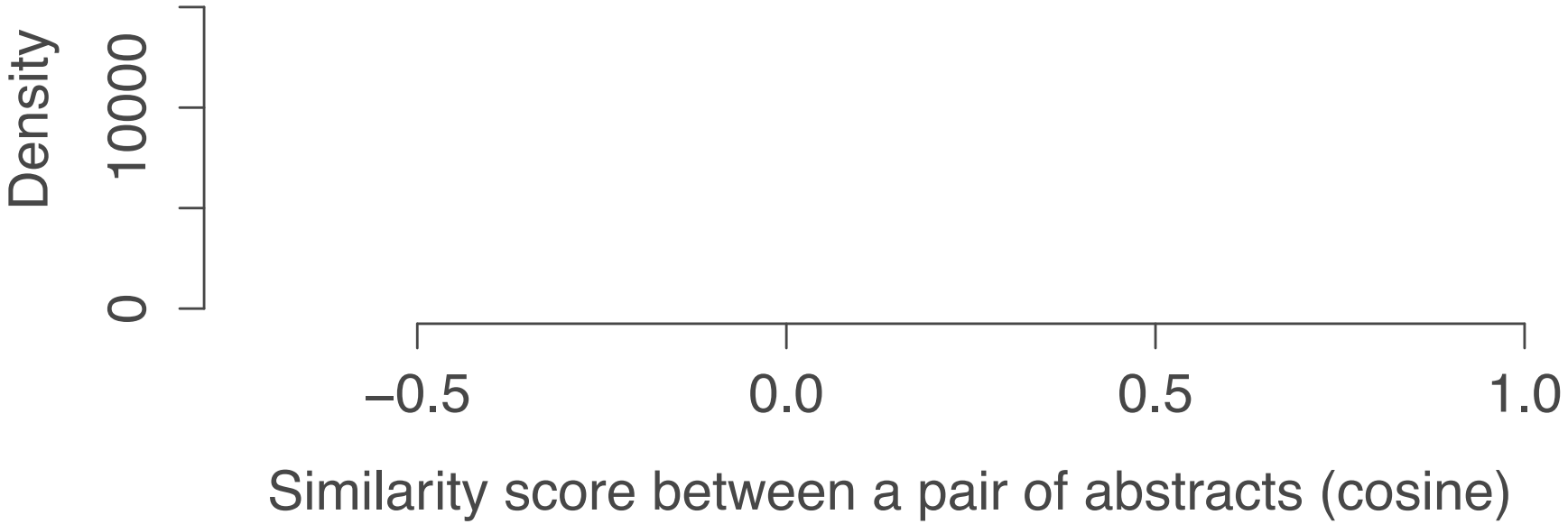

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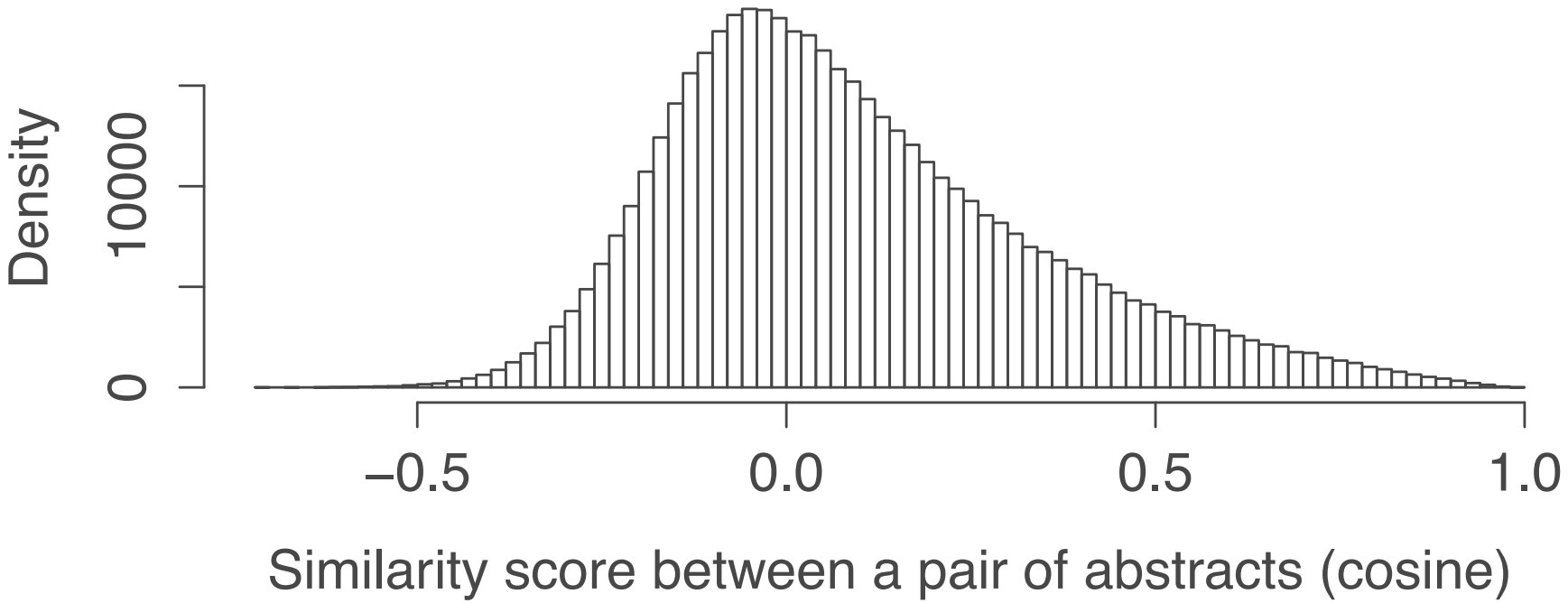

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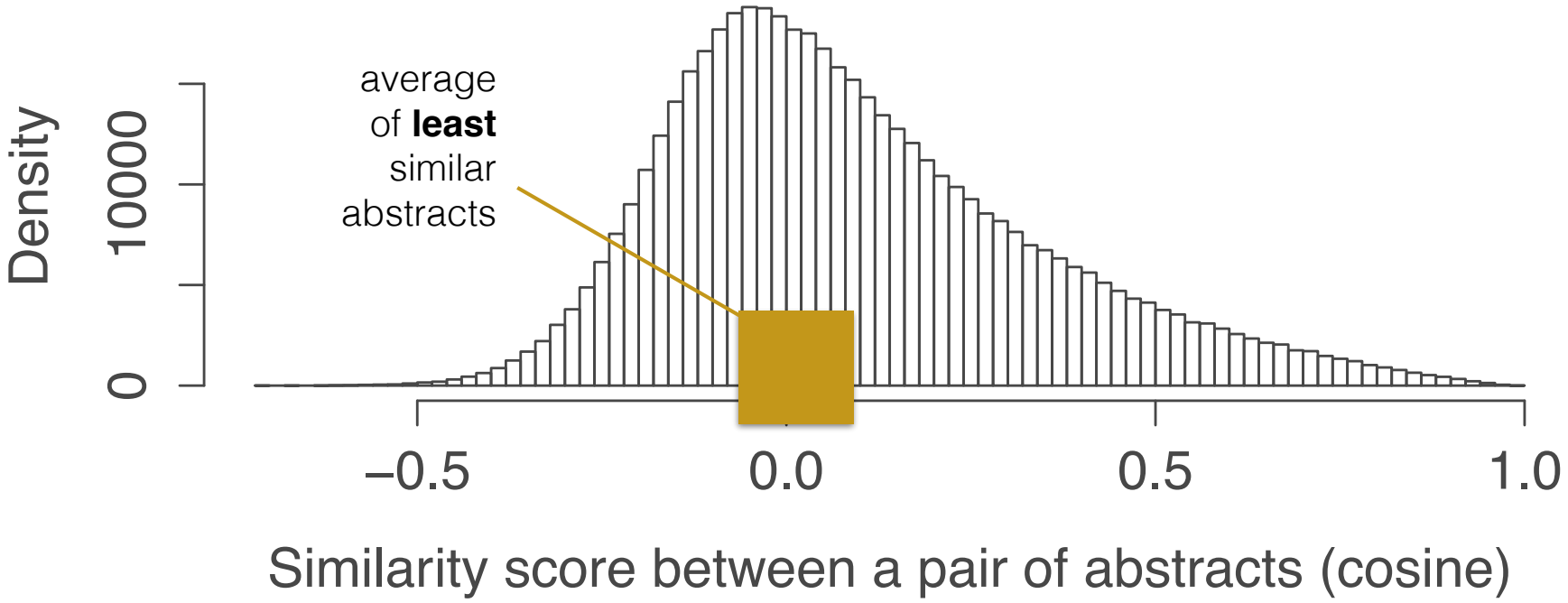

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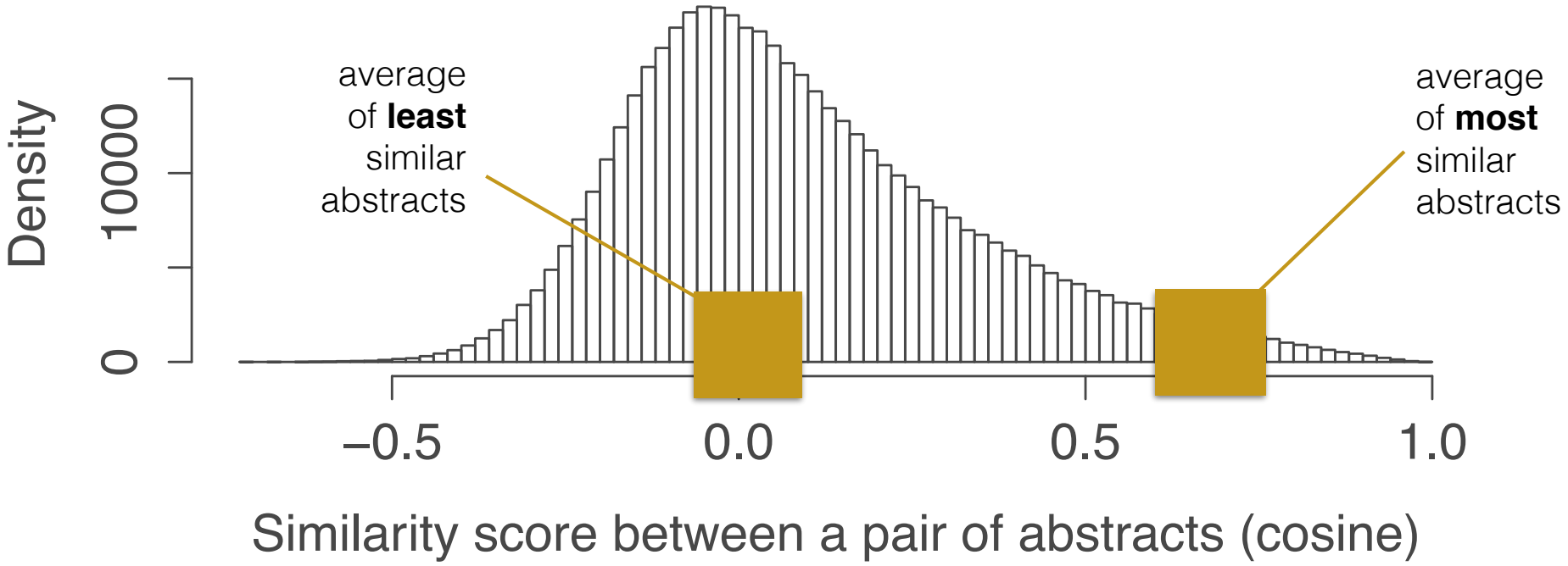

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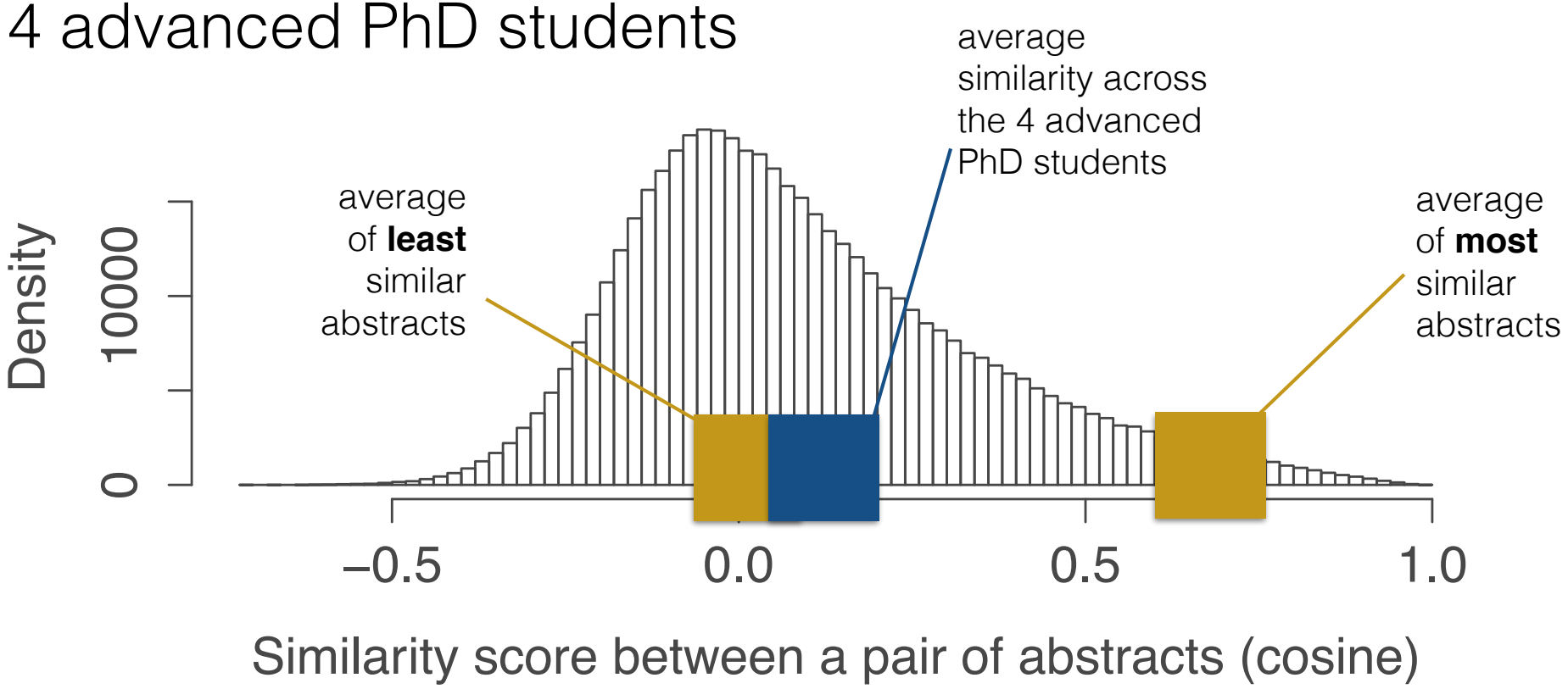
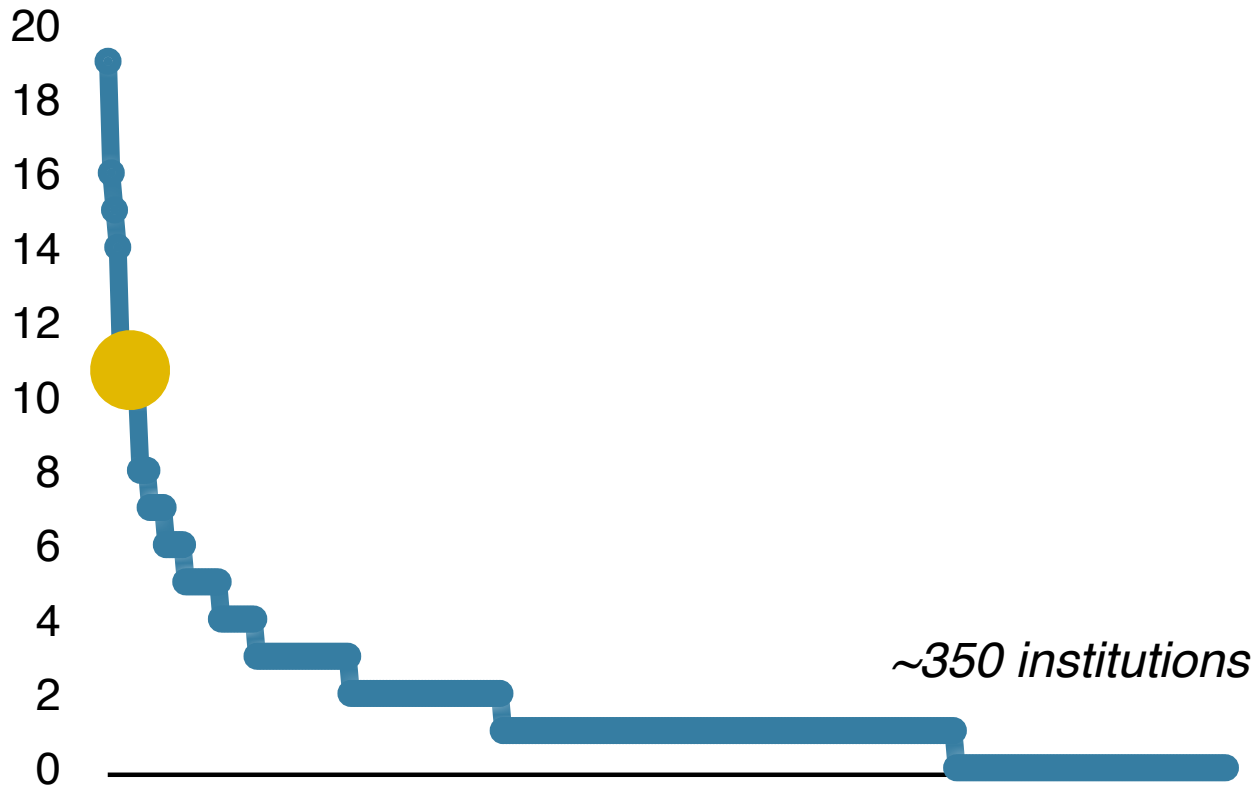


CogSci 2013

Accepted Proceedings Paper 32% rejection rate



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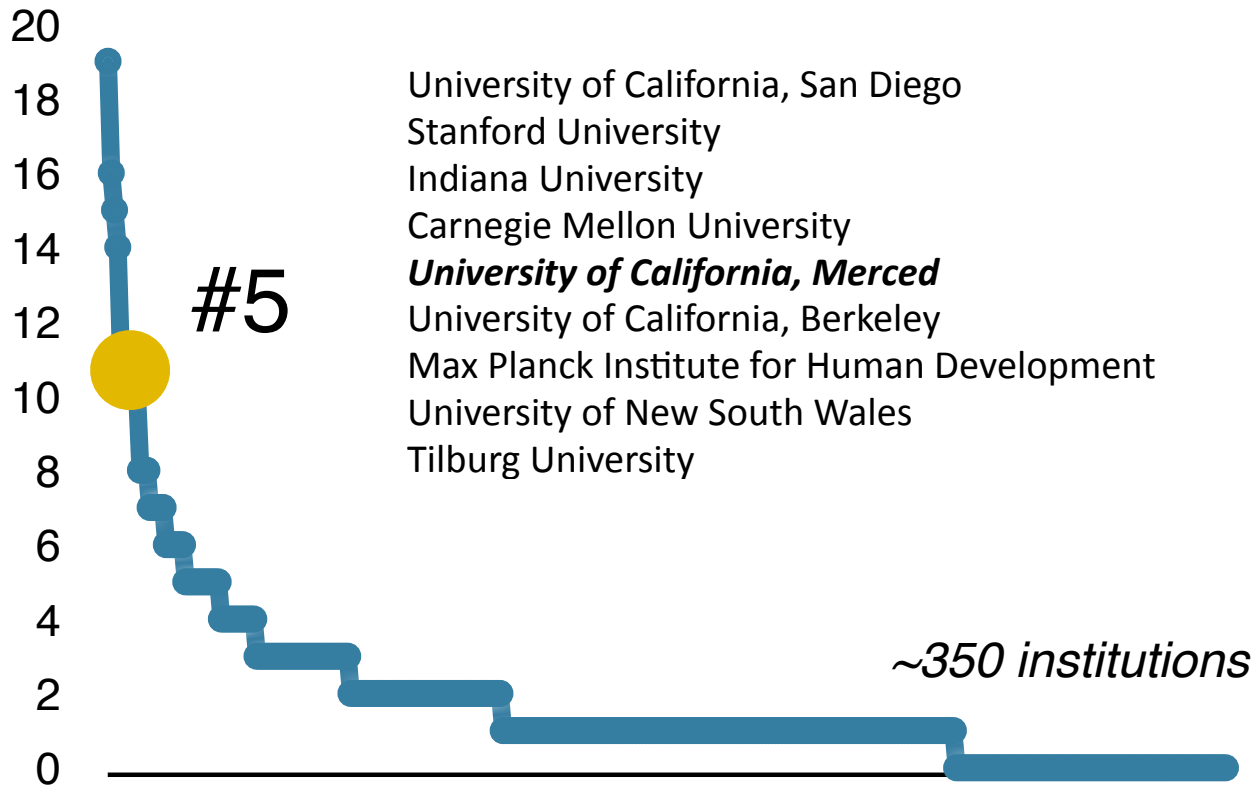
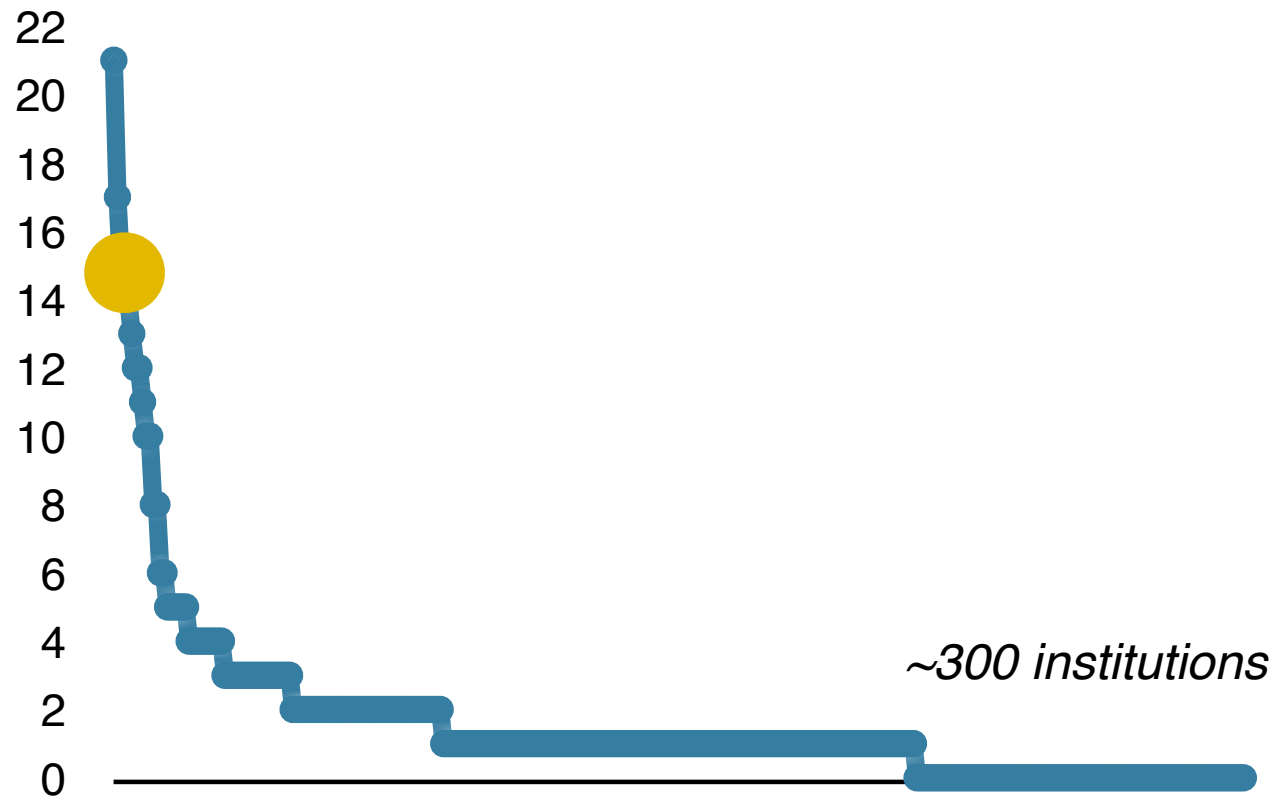


CogSci 2014

Accepted Proceedings Paper 28% rejection rate



CogSci 2014

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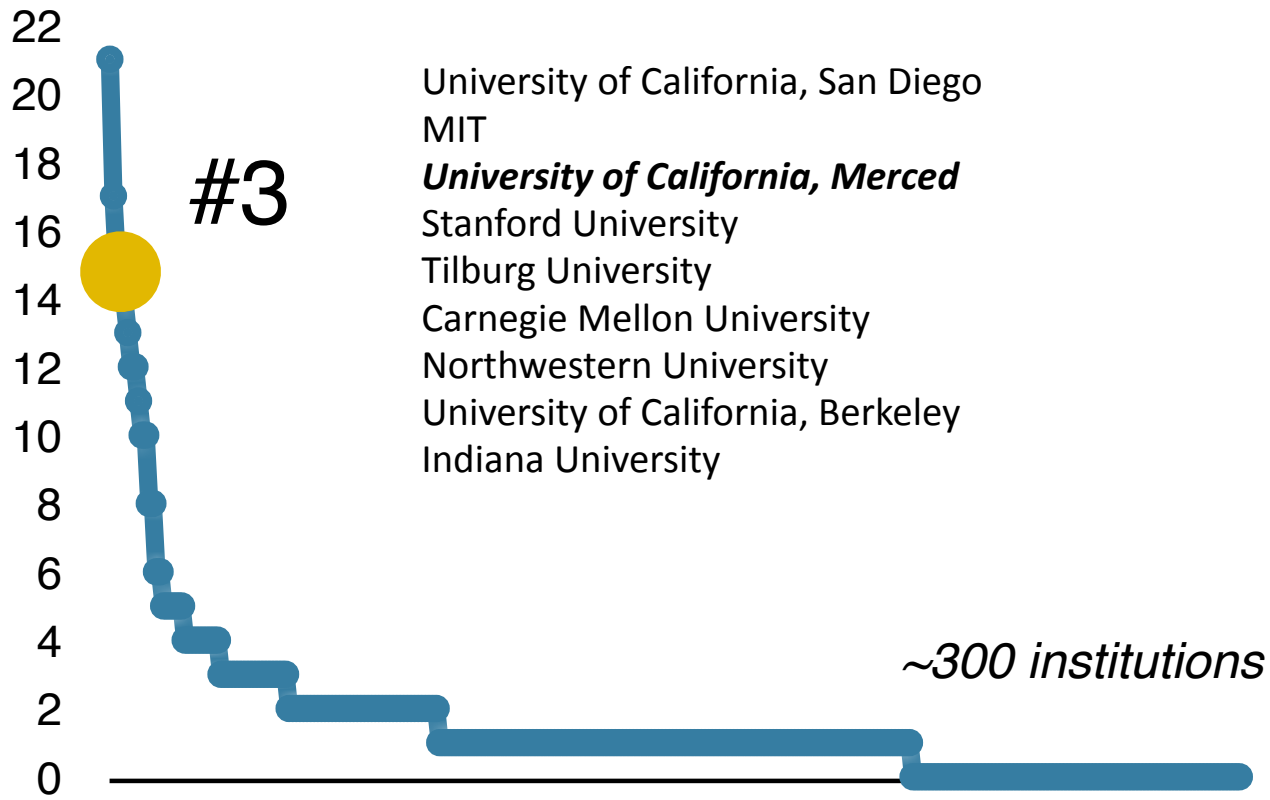

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training in scientific research

cognitive & information sciences graduate student productivity and contributions in the 2012-2013 academic year

Chicago
Lisbon
Berlin
Galway
Edmonton
Santa Barbara
Washington, DC
Newcastle
Minneapolis
Potsdam

10 cities, 6 countries

59 unique conference presentations

language development: evolution, change, acquisition
nonlinear methods for psychological science
lsa summer institute universality and variability
joint action workshop
spatial cognition summer institute
dynamic field theory
structural equation modeling
exploratory data mining

8 unique workshop experiences

40 unique writing endeavors

5 chapters
12 accepted or in-press journal articles
13 submitted journal articles
13 proceedings
3 in-prep papers

extensive service *including*

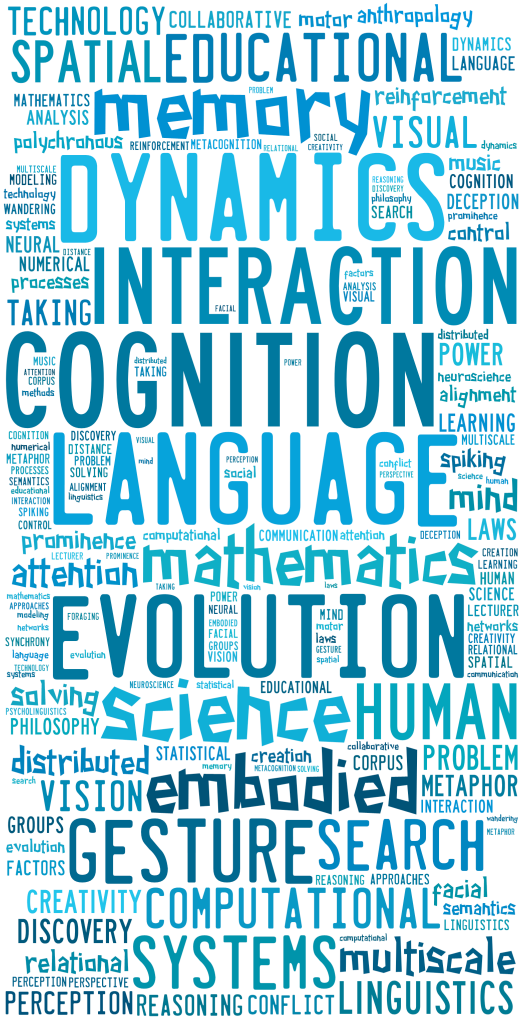
ad hoc journal manuscript reviewing
providing extensive undergrad research experiences
university representation and coordination
workshop presentations to summer research programs, e.g., McNair Scholars Program

cogsci.ucmerced.edu *based on data from 19 students*

UCMERCED

program

Graduate *v* Assessment



Thanks

Thanks to UCM Assessment