

Nicholaus S. Noles, Ph.D.

Department of Psychological
& Brain Sciences
University of Louisville
Louisville, KY 40292

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Academic Appointments

- 2023- Department Chair, Department of Psychological and Brain Sciences,
University of Louisville
- 2020- Associate Professor, Department of Psychological and Brain Sciences,
University of Louisville
- 2022-2024 Director, Grawemeyer Award in Psychology
- 2021 Interim Director of Undergraduate Studies, Department of Psychological
and Brain Sciences, University of Louisville
- 2014-2020 Assistant Professor, Department of Psychological and Brain Sciences,
University of Louisville
- 2012-2013 Assistant Professor, Department of Psychology, Michigan State University
- 2008-2012 Postdoctoral Fellow, Advisor: Dr. Susan Gelman, Department of
Psychology, University of Michigan

Education

- 2008 Ph.D. in Cognitive Psychology, Yale University
Advisors: Drs. Frank Keil & Paul Bloom
- 2006 M.Phil. in Psychology, Yale University
Advisor: Dr. Brian Scholl
- 2005 M.S. in Psychology, Yale University
Advisor: Dr. Brian Scholl
- 2002 B.S. in Psychology, Magna cum Laude with University & Departmental
Honors, The University of Alabama at Birmingham

Honors & Awards

Creative Research Activities Grant, University of Louisville, 2022-2023

Student Champion, College of Arts and Sciences, University of Louisville, 2020-2021;
2024

Faculty Favorite, College of Arts and Sciences, University of Louisville, 2014-2024

Distinguished Alumni Scholar, University of Alabama at Birmingham, 2016

Faculty Favorite “Top 4”, College of Arts and Sciences, University of Louisville, 2015

McDougal Fellow, Graduate School of Arts & Sciences, Yale University, 2003-2005

Honorable Mention, National Science Foundation Graduate Research Funding Program,
2004

Dean’s Award for Outstanding Student, School of Social and Behavioral Sciences,
University of Alabama at Birmingham, 2002

Outstanding Student in the Department of Psychology, University of Alabama at
Birmingham, 2002

Passey Prize for Achievement in Psychology, University of Alabama at Birmingham,
2002

Manuscripts Under Review

Norris, M.N., & Noles, N.S. Parent’s authoritarianism influences children’s beliefs about
people.

In Press Publications

Publications

Patel, K.S., Danovitch, J.H., & Noles, N.S. (2024). Children’s beliefs about Black and
White men’s and women’s scientific knowledge: An intersectional approach.
Developmental Psychology, doi.org/10.1037/dev0001854.

Nancekivell, S.E., Davidson, N.S., Noles, N.S., & Gelman, S.A. (2023). Preliminary evidence for progressions in ownership reasoning over the preschool period. *Developmental Psychology*, *59*, 1116-1125.

Nancekivell, S.E., Davidson, N.S., Noles, N.S., & Gelman, S.A. (2023). “She should get her own cat”: Parent-child conversations about ownership and reciprocity. *Cognitive Development*, *66*, 434-445.

Noles, N.S., & McDermott, C.H. (2023). Children’s understanding of gratitude, generosity, and reciprocity. *Cognitive Development*, *66*, 101322.

Norris, M.N., McDermott, C.H., & Noles, N.S. (2023). Listen to your mother: Children use hierarchical social roles to guide their judgements about people. *Journal of Cognition and Development*, doi: [10.1080/15248372.2023.2176854](https://doi.org/10.1080/15248372.2023.2176854).

Noles, N.S. (2023). Development, history, and a minimalist model of ownership psychology. *Behavior and Brain Sciences*, *46*, e346.

Norris, M.N., & Noles, N.S. (2022). ‘An ounce of loyalty’: Children’s expectations about loyalty and preference for in-group members and authority figures. *Proceedings of the Annual Meeting of the Cognitive Science Society*, *44*, 107-113.

Noles, N.S., Gelman, S.A., & Stilwell, S. (2021). To give or receive? The role of giver versus receiver on object tracking and object preferences in children and adults. *Journal of Cognition and Culture*, *21*, 369-388.

Norris, M., & Noles, N.S. (2021). Can a leopard change its spots? Only some children use counterevidence to update their beliefs about people. *Cognitive Development*, *58*, 101037.

Marchak, K.A., Laughlin, M., Gelman, S.A., & Noles, N.S. (2020). Beliefs about the persistence of history in objects and spaces in the United States and India. *Journal of Cross-cultural Psychology*, *51*, 309-332.

Noles, N.S. (2019). Salience or centrality: Why do some features influence inductive generalization more than others? *Developmental Psychology*, *55*, 612-622.

Noles, N.S., & Keil, F.C. (2019). Exploring the first possessor bias in children. *PLoS ONE*, *14*, 1-13.

McDermott, C.H., & Noles, N.S. (2018). The role of age, theory of mind, and linguistic ability in children’s understanding of ownership. *PLoS ONE*, *13*, 1-10.

Gelman, S.A., Martinez, M., Davidson, N.S., & Noles, N.S. (2018). Developing digital privacy: Children's moral judgments concerning mobile GPS devices. *Child Development*, 89, 17-26.

Gelman, S.A., Manczak, E.M., Was, A.M., & Noles, N.S. (2016). Children seek historical traces of owned objects. *Child Development*, 87, 239-255.

Noles, N.S., & Danovitch, J.H. (2016). Ultrasociality and the division of cognitive labor. *Behavioral and Brain Sciences*, 39, 31-32.

Danovitch, J. H., Noles, N. S., & Shafto, P. (2015). How children seek out information from human and technological informants. In G. Airenti, B. G. Bara, & G. Sandini (Eds.) *Proceedings of the EuroAsianPacific Joint Conference on Cognitive Science* (pp. 407-412). Torino, Italy: Cognitive Science Society.

Gelman, S.A., Frazier, B.N., Noles, N.S., Manczak, E., & Stillwell, S.M. (2015). How much would children pay for Harry Potter's glasses? Developing an appreciation for the value of authentic objects. *Journal of Cognition and Development*, 16, 97-117.

Noles, N.S., Danovitch, J.H., & Shafto, P. (2015). Children's trust in technological and human informants. In D.C. Noelle, R. Dale, A.S. Warlaumont, J. Yoshimi, T. Matlock, C.D. Jennings, & P.P. Maglio (Eds.). *Proceedings of the 37th Annual Meeting of the Cognitive Science Society*. Pasadena, CA: Cognitive Science Society.

Noles, N.S. & Danovitch, J.H. (2015). Children's inductive inference are influenced by some features more than others. In G. Airenti, B. Bara, & G. Sandini (Eds.), *Proceedings of the EuroAsianPacific Joint Conference on Cognitive Science, 4th European Conference on Cognitive Science, 11th International Conference on Cognitive Science* (pp. 419-424). Torino, Italy: Cognitive Science Society.

Danovitch, J. H., & Noles, N. S. (2014). Categorization ability, but not theory of mind, contributes to children's developing understanding of expertise. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (pp. 2097-2012). Austin, TX: Cognitive Science Society.

Gelman, S.A., Noles, N.S., & Stillwell, S. (2014). Tracking the actions and possessions of agents. *Topics in Cognitive Sciences*, 6, 599-614.

Noles, N.S., & Danovitch, J.H. (2014). Owning up to the role of historical information. *Behavioral and Brain Sciences*, 34, 497-498.

Noles, N.S., & Gelman, S.A. (2014). You can't always get what you want: Children's intuitions about ownership and desire. *Cognitive Development*, 31, 59-68.

Gelman, S.A., Meyer, M.A., & Noles, N.S. (2013). History and essence in human cognition. *Behavioral and Brain Sciences*, 36, 142-143.

Gelman, S.A., Manczak, E.M., & Noles, N.S. (2012). The nonobvious basis of ownership: Preschool children trace the history and value of owned objects. *Child Development*, 83, 1731-1747.

Noles, N.S., & Gelman, S.A. (2012a). Effects of categorical labels on similarity judgments: A critical analysis of similarity-based approaches. *Developmental Psychology*, 48, 890-6.

Noles, N.S., & Gelman, S.A. (2012b). Disentangling similarity judgments from pragmatic judgments: Response to Sloutsky and Fisher (2012). *Developmental Psychology*, 48, 901-6.

Noles, N.S., & Gelman, S.A. (2012c). Preschool children and adults flexibly shift their preference for auditory versus visual modalities, but do not exhibit auditory dominance. *Journal of Experimental Child Psychology*, 112, 338-50.

Noles, N.S., Keil, F.C., Bloom, P., & Gelman, S.A. (2012). Children's and adults' intuitions about who is entitled to own things. *Journal of Cognition and Culture*, 12, 265-286.

Gelman, S.A., & Noles, N.S. (2011). Domains and naïve theories. *Wiley Interdisciplinary Reviews: Cognitive Science*, 2: n/a. doi: 10.1002/wcs.124.

Noles, N., & Keil, F.C. (2011). Exploring ownership in a developmental context. In H. S. Ross & O. Friedman (Eds.), *The developmental origins of ownership of property - New Directions for Child & Adolescent Development* (pp. 91-103). San Francisco, CA: Jossey-Bass.

Mitroff, S.R., Scholl, B.J., & Noles, N.S. (2007). Object files can be purely episodic. *Perception*, 36, 1730-1735.

Noles, N.S., Scholl, B.J., & Mitroff, S.R. (2005). The persistence of object file representations. *Perception & Psychophysics*, 67, 324 - 334.

Noles, N.S., & Scholl, B.J., (2005). What's in an object file? Integral vs. separable features. *Journal of Vision*, 5, 614 – 614.

Scholl, B.J., Noles, N.S., Pasheva, V., & Sussman, R. (2003). Talking on a cellular telephone dramatically increases "sustained inattention blindness." *Journal of Vision*, 3, 156-156.

Invited Talks and Colloquia

Noles, N.S., (2019). *Growing up in the internet age: How children seek out information from technological and human informants*. Colloquium presented at Intelligent Mobile Devices in Children's Study and Development, Chongqing, Sichuan Province, China.

Noles, N.S., (2019). *Naïve economics*. Invited talk presented at Central China Normal University, Hubei Province, China.

Noles, N.S. (2017). *Naïve economics: How concepts of ownership and property contribute to children's social cognition and market behaviors*. Colloquium presented at the University of Alabama, Tuscaloosa, AL.

Noles, N.S. (2016). *The development of economic behaviors*. Colloquium presented at the University of Alabama at Birmingham, Birmingham, AL.

Noles, N.S. (2010). *Perception and cognitive development in children*. Invited talk presented at the Michigan State University Cognitive Forum, East Lansing, MI.

Noles, N.S. (2007). *Concepts of Ownership in Development*. Invited talk presented at the College of Charleston, Charleston, NC.

Presentations

Norris, M. N. & Noles, N. S. (2024, March). Black and White children's responses to unequal social hierarchies and reasoning for upward social mobility. Poster presented at the biennial meeting of the Cognitive Development Society, Pasadena, CA.

Noles, N. S. & Norris, M. N. (2024, March). Representation in positions of power: Children's creation of (in)equality in complex social hierarchies. Poster presented at the biennial meeting of the Cognitive Development Society, Pasadena, CA.

Gayle, K., Noles, N.S., & Dunham, Y.C. (2023). Children consider both race and gender when making judgements about others. Poster presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City, Utah.

Norris, M.N., & Noles, N.S. (2023). Is knowledge status? Children believe smart people are wealthy, leaders, and influencers of social change. Poster presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City, Utah.

Gayle, K., & Noles, N.S. (2022). Why do people experience failure? Perceptions of the rich and poor. Poster presented at the biennial meeting of the Cognitive Development Society, Madison, WI.

Noles, N.S., Norris, M.N., & French, S. (2022). Parent authoritarianism and children's beliefs. Poster presented at the biennial meeting of the Cognitive Development Society, Madison, WI.

Norris, M.N., & Noles, N.S. (2022). Children's sensitivity to gender- and race-based inequality. Talk presented at the biennial meeting of the Cognitive Development Society, Madison, WI.

Norris, M.N., & Noles, N.S. (2022). Children's evaluations of helpers and hinderers as leaders. Poster presented at the Graduate School Regional Research conference, Louisville, KY.

Patel, K.S., Danovitch, J.H., & Noles, N.S. (2022). Children's attributions of scientific knowledge to potential informants who vary by race and gender. Poster presented at the biennial meeting of the Cognitive Development Society, Madison, WI.

Quach, S.M., Gayle, K., Norris, M.N., & Noles, N.S. (2021). "Life isn't fair": Children know what's fair, but expect groups to behave unfairly. Poster presented at the annual Undergraduate Arts and Research Showcase, Louisville, KY.

Norris, M.N. & Noles, N.S. (2021). *Children's concepts of fairness and social mobility*. Talk presented in the Anti-Racism symposium at Research!Louisville, Louisville, KY.

Noles, N.S., & Norris, M.N. (2021). *Like a boss: Older children rectify unequal hierarchical structures more than younger children*. Poster presented at the biennial meeting of the Society for Research in Child Development, Virtual Conference.

Norris, M.N., Noles, N.S., (2021). *Moving on up: Children recognize and intervene in unequal workplace hierarchies*. Talk presented at the meeting of the Midwestern Psychological Association, Virtual Conference.

Norris, M.N., & Noles, N.S. (2021). *Where loyalties lie: Children's beliefs about loyalty to authorities*. Poster presented at the biennial meeting of the Society for Research in Child Development, Virtual Conference.

Norris, M.N., Noles, N.S., (2021). *Who's the boss: Children increase equality while limiting upward mobility of minorities*. Poster presented at the biennial meeting of the Society for Research in Child Development, Virtual Conference.

McDermott, C., & Noles, N.S., (2019). *When lying makes cents: The effect of exposure to currency on children's self-interested behaviors*. Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.

McDermott, C., Noles, N.S., & Nguyen, S. (2019). *The influence of representational complexity on children's willingness to cross-classify individuals*. Poster presented at the biennial meeting of the Cognitive Development Society, Louisville, KY.

McDermott, C., Noles, N.S., & Norris, M. (2019). *The role of cross-classification in children's knowledge attributions and testimony evaluations*. Poster presented at the biennial meeting of the Cognitive Development Society, Louisville, KY.

Noles, N.S., & McDermott, C., (2019). *How "free-riders" influence children's attitudes toward social welfare programs*. Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.

Norris, M., Noles, N.S., & McDermott, C. (2019). *Listen to your mother: Children's understanding of power in hierarchical social roles*. Poster presented at the biennial meeting of the Cognitive Development Society, Louisville, KY.

McDermott, C., Noles, N.S., & Nguyen, S.P., (2017). *Developmental changes in categorizing others into multiple social roles*. Poster presented at the biennial meeting of the Cognitive Development Society, Portland, OR.

Noles, N.S., & McDermott, C. (2017). *Can ownership rules be suspended?* Poster presented at the biennial meeting of the Cognitive Development Society, Portland, OR

Noles, N.S., & McDermott, C. (2017). *Do children judge ownership transgressions to be conventional or moral violations?* Poster presented at the annual meeting of the Association for Psychological Science, Boston, MA.

Noles, N.S., & McDermott, C. (2017). *The role of age, theory of mind, and linguistic ability in children's understanding of ownership*. Poster presented at the annual meeting of the Association for Psychological Science, Boston, MA.

Noles, N.S., & McDermott, C. (2017). *Children's evaluations of ownership transgressions*. Talk presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

Noles, N.S., & McDermott, C. (2017). *Children's reasoning about different kinds of property transfers*. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

Noles, N.S., Gelman, S.A., & Davison, N. (2017). *The invisible ties of ownership*. Talk presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

Danovitch, J.H., Noles, N.S., & Shafto, P. (2016). *The development of trust in internet search engines*. Poster presented at the Technology and Media in Children's Development Meeting, Irvine, CA.

McDermott, C.H., & Noles, N.S. (2016). *Learning about Economic Systems: Developing Concepts of Fungibility*. Poster presented at the University of Louisville Graduate Student Regional Research Conference, Louisville, KY.

Messmer, J., Noles, N.S., Danovitch, J.H., & Shafto, P. (2015). *What can the Internet tell you about Pangolins?: Children's Questions for Internet and Human Sources*. Poster presented at the Cognitive Development Society meeting, Columbus, OH.

Noles, N.S., Danovitch, J.H., & Shafto, P. (2015). *Children's trust in people and the internet*. Poster presented at the annual meeting of the American Psychological Society. New York, NY.

Noles, N.S. (2015). *Gratitude and gift giving*. Talk presented at the biennial meeting of the Society for Research in Child Development. Philadelphia, Pennsylvania.

Noles, N.S., Danovitch, J.H., & Shafto, P. (2015). *Is it Better to Ask a Friend or Google?: Children's Trust in People and the Internet*. Poster presented at the biennial meeting of the Society for Research in Child Development. Philadelphia, Pennsylvania.

Noles, N. S., Danovitch, J. H., & Shafto, P. (2015). *Developmental Changes in Learning from the Internet*. Talk presented at the Association for Psychological Science meeting, New York, NY.

Danovitch, J.H., & Noles, N.S. (2014). *Categorization ability, but not theory of mind, contributes to children's developing understanding of expertise*. Poster presented at the annual meeting of the Cognitive Science Society. Quebec City, Canada.

Noles, N.S. (2014). *Some features drive inductive inference more than others*. Poster presented at the annual meeting of the American Psychological Society. San Francisco, California.

Noles, N.S. & Gelman, S.A. (2013). *Property rights: You get what you need*. Poster presented at the biennial meeting of the Cognitive Development Society. Memphis, Tennessee.

Noles, N.S. & Gelman, S.A. (2013). *Ownership and desire*. Poster presented at the biennial meeting of the Society for Research in Child Development. Seattle, Washington.

Noles, N.S. & Gelman, S.A. (2013). *Assignment of ownership and the endowment effect*. Talk presented at the biennial meeting of the Society for Research in Child Development. Seattle, Washington.

Noles, N.S. (2011). *Effects of labels on categorization: A critical analysis of similarity-based approaches*. Poster presented at the biennial meeting of the Cognitive Development Society, Philadelphia, PA.

Noles, N.S., Davidson, N.S., Gelman, S.A., Manczak, E.M. (2011). *Tracing the historical path of owned objects*. Talk presented at the biennial meeting of the Society for Research in Child Development. Montreal, Quebec, Canada.

Noles, N.S., & Gelman, S.A. (2011). *Children's modality preferences are flexible and sensitive to contrast*. Poster presented at the biennial meeting of the Society for Research in Child Development. Montreal, Quebec, Canada.

Danovitch, J.H., & Noles, N.S. (2010). *Religiosity and beliefs about scientific questions*. Poster presented at the annual meeting of the Society for Personality and Social Psychology, Las Vegas, NV.

Noles, N.S. (2009). *Ownership concepts*. Talk presented at the University of Michigan Developmental Lecture Series, Ann Arbor, MI.

Noles, N.S., Keil, F.C. & Bloom, P. (2009). *Categorical and pragmatic boundaries guide children and adults in identifying property*. Poster presented at the biennial meeting of the Society for research in Child Development, Denver, CO.

Noles, N.S., Keil, F.C. & Bloom, P. (2009). *Two biases affect children's inferences of ownership across property transfers*. Poster presented at the biennial meeting of the Society for research in Child Development, Denver, CO.

Noles, N.S., Keil, F.C. & Bloom, P. (2008). *Who can be an owner? Evidence from children and adults*. Presented as a talk at the Harvard-Yale Conference on Social Cognitive Development, Cambridge, MA.

Noles, N.S. & Bloom, P. (2007). *Children's use of spatiotemporal continuity when drawing inferences about object persistence*. Poster presented at the biennial meeting of the Society for research in Child Development, Boston, MA.

Noles, N.S. & Bloom, P. (2006). *The ship of Theseus: Concepts and identity*. Poster presented at the annual meeting of the Association for Psychological Science, New York, NY.

Noles, N.S. & Scholl, B.J. (2005). *What's in an object file?: Integral vs. separable features*. Poster presented at the annual meeting of the Vision Sciences Society, Sarasota, FL.

Noles, N.S. & Bloom, P. (2004). *The ship of Theseus: Percepts, concepts, and object persistence*. Presented as a talk at the joint meeting of the Society for Philosophy and Psychology and the European Society for Philosophy and Psychology, Barcelona, Spain.

Noles, N.S. (2004). *The persistence of object representations: Percepts and concepts*. Presented as a talk at the Cognitive Lunch series at Yale University, New Haven, CT.

Noles, N. S., & Scholl, B. J. (2003). *The persistence of object-file representations*. Poster presented at the annual meeting of the Vision Sciences Society, Sarasota, FL.

Vance, D.E., Noles, N.S., Darling, L., Wadley, J.D., Edwards, J.D., & Ball, K.K. (2003). *Unanticipated benefits of social contact control group: Internet training*. Talk presented at the annual meeting of the Gerontological Society of America, Chicago, IL.

Teaching Experience

Introduction to Psychology
Cognitive Psychology (online & in person)
Developmental Psychology
Child Development
Experimental Psychology (Methods)
Making Sense of Data (quantitative reasoning for general education)
Graduate Seminars: Concepts and Categories; Social Cognition
Practicum in Teaching (for graduate students)

Reviewer

Banting Postdoctoral Fellowship Program, Grant Reviewer
Canadian Foundation for Innovation, Grant Reviewer
Canadian Journal of Experimental Psychology
Child Development
Child Development Research
Cognition
Cognitive Development
Cognitive Science
Cognitive Science Society Reviewer, 2014-2018, 2020-2022
Cognitive Development Society Reviewer, 2019-2022
Developmental Psychology
Developmental Science
Emotion
Experimental Brain Research
Infant and Child Development
Interaction Studies
Journal of Cognition and Development
Journal of Experimental Child Psychology
Journal of Experimental Psychology: Learning, Memory, & Cognition
Journal of Experimental Psychology: General
Memory and Cognition
Natural Sciences and Engineering Research Council of Canada, Grant Reviewer
National Science Foundation, Reviewer 2022, 2023
Philosophy of Science
PLOS ONE
Psychological Science

Social Development

Social Sciences and Humanities Research Council of Canada, Grant Reviewer

SRCD 2011 Biennial Meeting, Representation, Concepts, and Problem Solving

SRCD 2020 Biennial Meeting, Social Cognition

Studies in Educational Evaluation

Visual Cognition

Service

University Service of Louisville 2026-2030 Strategic Planning

- Discovery Work Group
- Mission, Vision, Values Work Group

College of Arts and Sciences Budget and Planning Committee, University of Louisville, 2022-2023.

Honors Thesis Committee, Arts & Sciences, University of Louisville, 2019-2025.

College of Arts & Sciences COVID Planning Committee, University of Louisville, 2020.

Accolade: Social Science Representative, 2020.

Diversity Champion Selection Committee, University of Louisville, 2020.

University of Louisville Arts & Sciences COVID Planning Committee, 2020.

Personnel Committee, Department of Psychological and Brain Sciences, University of Louisville, 2020-2022.

Inclusive Teaching Circle, University of Louisville, 2016-present.

Undergraduate Committee, Department of Psychological and Brain Sciences, University of Louisville, 2015-2020.

Grawemeyer Award Committee, Department of Psychological and Brain Sciences, University of Louisville, 2016-2019.

Colloquium Committee, Department of Psychological and Brain Sciences, University of Louisville, 2014-15.

Grandparents University, Michigan State University, 2009-2011, 2013.

Big Brothers, Big Sisters, Mentor, 2009-2011.

Graduate Student Assembly, Elected Representative, Yale University, 2005-2008.

Graduate Teaching Committee, Yale University, 2005-2008.

Colloquium Committee, Department of Psychology, Yale University, 2003-2006.

Diversity Committee, Department of Psychology, Yale University, 2002-2006.

Cognitive Lecture Series coordinator, Dept. of Psychology, Yale University, 2003-2004.

Preparing Future Faculty, American Psychological Association, 2002.

Other

Author of *JoVE Science Education Database: Essentials of Developmental Psychology* (2016), which includes videos and text descriptions of classic and contemporary experiments. See <http://www.jove.com/science-education-database/14/essentials-of-developmental-psychology>.

Professional References

Susan Gelman – gelman@umich.edu

Frank Keil - frank.keil@yale.edu

Rich Lewine - rich.lewine@louisville.edu