
ELIZABETH GRACE EVELYN KYONKA

Department of Psychology
California State University, East Bay

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EDUCATION

University of Canterbury, Christchurch, New Zealand
Ph.D., Experimental Psychology, 2009

Brown University, Providence, Rhode Island, USA
Sc.B. with honors in Cognitive Neuroscience, 2004

PROFESSIONAL APPOINTMENTS

- | | |
|----------------|---|
| 2020 – present | Assistant Professor (Experimental Analysis of Behavior), Department of Psychology, California State University – East Bay, Hayward, CA USA |
| 2019 – 2020 | Education Specialist, The Centre for Addiction and Mental Health, Toronto ON Canada |
| 2017 – 2018 | Higher Degree Research Coordinator, School of Behavioural, Cognitive and Social Sciences, University of New England, Armidale NSW Australia |
| 2016 – 2019 | Lecturer in Psychology, University of New England, Armidale NSW Australia |
| 2009 – 2016 | Assistant Professor (Behavior Analysis), Department of Psychology, West Virginia University, Morgantown WV USA |

PUBLICATIONS

Authorship follows APA guidelines (*American Psychologist*, 1992, p. 1609). Principal author is first. When not first, senior author is typically last. Student authors from my laboratory are underlined.

Peer-reviewed journal articles

Hassan, M.[co] & **Kyonka, E. G. E.[co]** (2021). A behavior analytic perspective on treatment of problem gaming and problem social media use. *The Psychological Record*.
<https://doi.org/10.1007/s40732-021-00465-y>

- Kyonka, E. G. E.** (2019). Tutorial: Small-N Power Analysis. *Perspectives on Behavior Science*, 42, 133-152. doi: [10.1007/s40614-018-0167-4](https://doi.org/10.1007/s40614-018-0167-4)
- Kyonka, E. G. E.**, Mitchell, S., & Bizo, L. (2019). Beyond Inference by Eye: Statistical and Graphing Practices in JEAB, 1992-2017. *Journal of the Experimental Analysis of Behavior*, 111, 155-165. doi: [10.1002/jeab.509](https://doi.org/10.1002/jeab.509)
- Subramaniam, S.**, & **Kyonka, E. G. E.** (2019). Selective attention in pigeon temporal discrimination. *Quarterly Journal of Experimental Psychology*, 72, 298-310. doi: [10.1080/17470218.2017.1360921](https://doi.org/10.1080/17470218.2017.1360921)
- Kyonka, E. G. E.** & Schutte, N. S. (2018). Probability discounting and gambling: A meta-analysis. *Addiction* 113, 2173-2181. doi: [10.1111/add.14397](https://doi.org/10.1111/add.14397)
- Kyonka, E. G. E.[co]** & **Subramaniam, S.[co]**, (2018). Behavior analysis: A spectrum rather than a roadmap. *Perspectives on Behavior Science*, 41, 591-613. doi: [10.1007/s40614-018-0145-x](https://doi.org/10.1007/s40614-018-0145-x)
- Eckard, M. E.**, & **Kyonka, E. G. E.** (2018). Differential reinforcement of low rates decreased temporal discrimination in a peak procedure. *Behavioural Processes*, 151, 111-118. [10.1016/j.beproc.2018.02.022](https://doi.org/10.1016/j.beproc.2018.02.022)
- Bell-Garrison, D.**, **Rice, N.** & **Kyonka, E. G. E.** (2018). Adaptive learning and forgetting in an unconventional experimental routine. *Animal Cognition*, 21, 315-329. [10.1007/s10071-018-1168-0](https://doi.org/10.1007/s10071-018-1168-0)
- Rice, N.** & **Kyonka, E. G. E.** (2017). Pigeons choose to gamble in a categorical discrimination task. *Analysis of Gambling Behavior*, 11 Article 2. Available at: <http://repository.stcloudstate.edu/agb/vol11/iss1/2>
- Fox, A. E.**, & **Kyonka, E. G. E.** (2017). Searching for the variables that control human rule-governed “insensitivity”. *Journal of the Experimental Analysis of Behavior*, 108, 236-254. doi: [10.1002/jeab.270](https://doi.org/10.1002/jeab.270)
- Kyonka, E. G. E.**, **Rice, N.** & **Ward, A. A.** (2017). Categorical discrimination of sequential stimuli: All S^A are not created equal. *The Psychological Record* 67, 27-41. doi: [10.1007/s40732-016-0203-2](https://doi.org/10.1007/s40732-016-0203-2)
- Fox, A. E.**, & **Kyonka, E. G. E.** (2016). Effects of signaling on temporal control of behavior in response-initiated fixed intervals. *Journal of the Experimental Analysis of Behavior*, 106, 210-224. doi: [10.1002/jeab.226](https://doi.org/10.1002/jeab.226)
- Fox, A. E.**, **Prue, K. E.**, & **Kyonka, E. G. E.** (2016). What is timed in a fixed-interval temporal bisection procedure? *Learning & Behavior*, 44, 366-377. doi: [10.3758/s13420-016-0228-z](https://doi.org/10.3758/s13420-016-0228-z)

- Subramaniam, S., & Kyonka, E. G. E. (2016). Environmental dynamics modulate covariation of choice and timing. *Behavioural Processes*, *124*, 130-140. doi: [10.1016/j.beproc.2016.01.005](https://doi.org/10.1016/j.beproc.2016.01.005)
- Daniels, C. W., Fox, A. E., Kyonka, E. G. E. & Sanabria, F. (2015) Biasing temporal judgments in rats, pigeons, and humans. *International Journal of Comparative Psychology*, *28*. uclapsych_ijcp_27337. Retrieved from: <http://escholarship.org/uc/item/50n6389s>
- Fox, A. E., & Kyonka, E. G. E. (2015). Timing in response-initiated fixed intervals. *Journal of the Experimental Analysis of Behavior*, *103*, 375-392. doi: [10.1002/jeab.120](https://doi.org/10.1002/jeab.120)
- Kyonka, E. G. E., Subramaniam, S., Bell-Garrison, D., & Eckard, M. L.** (2015). Collaborating with behavior analysts could avert a crisis in comparative psychology. Commentary “A crisis in comparative psychology: Where have all the undergraduates gone?” *Frontiers in Psychology*, *6*, 1743. doi: [10.3389/fpsyg.2015.01743](https://doi.org/10.3389/fpsyg.2015.01743)
- Anderson, K. G., **Kyonka, E. G. E.** (2014). Beyond Nature and Nurture: Review of “The Science of Consequences: How They Affect Genes, Change the Brain, and Impact Our World” by Susan M. Schneider. *International Journal of Aging and Human Development*, *78*, 198-200.
- Rice, N., Grace, R. C., Kyonka, E. G. E. (2014). Pigeons learn signal-food intervals independently in a multiple peak procedure. *Journal of Experimental Psychology: Animal Learning and Cognition*, *40*, 241-248. doi: [10.1037/xan0000011](https://doi.org/10.1037/xan0000011)
- Kyonka, E. G. E.** (2014). Quantifying transitions in response allocation with change point analysis in concurrent chains. *Behavioural Processes*, *104*, 91-98. doi: [/10.1016/j.beproc.2014.02.013](https://doi.org/10.1016/j.beproc.2014.02.013)
- Fox, A. E., Reid, A. K., Kyonka, E. G. E. (2014). Behavioral history and pigeons’ “Guiding Cues” performance. *The Psychological Record*, *64*, 403-413. doi: [10.1007/s40732-014-0060-9](https://doi.org/10.1007/s40732-014-0060-9)
- Fox, A. E., & Kyonka, E. G. E. (2014). Choice and timing in pigeons under differing food deprivation states. *Behavioural Processes*, *106*, 82-90. doi: [10.1016/j.beproc.2014.04.018](https://doi.org/10.1016/j.beproc.2014.04.018)
- Fox, A. E., Kyonka, E. G. E. (2013). Pigeon responding on fixed-interval and response-initiated fixed-interval schedules. *Journal of the Experimental Analysis of Behavior*, *100*, 187-197. doi: [10.1002/jeab.38](https://doi.org/10.1002/jeab.38)
- McKinlay, A., **Kyonka, E. G. E.,** Grace, R. C., Horwood, L. J., Fergusson D. M., MacFarlane M. R. (2010). An investigation of the pre-injury risk factors associated with children who experience traumatic brain injury (TBI). *Injury Prevention* *16*, 31-35. doi: [10.1136/ip.2009.022483](https://doi.org/10.1136/ip.2009.022483)
- Kyonka, E. G. E., & Grace, R. C.** (2010). Rapid acquisition of choice and timing and the provenance of the terminal-link effect. *Journal of the Experimental Analysis of Behavior* *94*, 209-225. doi: [10.1901/jeab.2010.94-209](https://doi.org/10.1901/jeab.2010.94-209)

- Kyonka, E. G. E., & Grace, R. C. (2009).** Effects of unpredictable changes in initial-link duration on choice and timing. *Behavioural Processes* 81, 227-232. doi: [10.1016/j.beproc.2008.12.024](https://doi.org/10.1016/j.beproc.2008.12.024)
- Kyonka, E. G. E. & Grace, R. C. (2008).** Rapid acquisition of preference in concurrent chains when alternatives differ on multiple dimensions of reinforcement. *Journal of the Experimental Analysis of Behavior* 89, 49-69. doi: [10.1901/jeab.2008.89-49](https://doi.org/10.1901/jeab.2008.89-49)
- Kyonka, E. G. E. (2008).** The matching law and effects of reinforcer rate and magnitude on choice in transition. *Behavioural Processes* 78, 210-16. doi: [10.1016/j.beproc.2007.12.003](https://doi.org/10.1016/j.beproc.2007.12.003)
- Kyonka, E. G. E. & Grace, R. C. (2007).** Rapid acquisition of choice and timing in pigeons. *Journal of Experimental Psychology: Animal Behavior Processes* 33, 392-408. doi: [10.1037/0097-7403.33.4.392](https://doi.org/10.1037/0097-7403.33.4.392)
- Grace, R. C., Berg, M. E. & **Kyonka, E. G. E. (2006).** Choice and timing in concurrent chains: effects of initial link duration. *Behavioural Processes* 71, 188-200. doi: [10.1016/0.2005.11.002](https://doi.org/10.1016/0.2005.11.002)
- Kyonka, E. G. E. & Church, R. M. (2005).** Empirical tests of “Take-the-Best” with non-human subjects. *Behavioral Processes* 69, 133-135. doi: [10.1016/j.beproc.2005.02.012](https://doi.org/10.1016/j.beproc.2005.02.012)
- Land, P. W., **Kyonka, E., & Shamalla-Hannah, L. (2004).** Vesicular glutamate transporters in the lateral geniculate nucleus: expression of VGLUT2 by retinal terminals. *Brain Research* 996, 251-254. doi: [10.1016/j.brainres.2003.10.032](https://doi.org/10.1016/j.brainres.2003.10.032)

Editorials for peer-reviewed journals

- Mitchell, S., Bizo, L. & **Kyonka, E. G. E. (2021).** SQAB 2019: Perspectives on reinforcer efficacy. *Behavioural Processes*, 188, 104392. <https://doi.org/10.1016/j.beproc.2021.104392>

Edited reference entries

- Kyonka, E. G. E. (2011).** Analysis of variance. In S. Goldstein & J. A. Naglieri (Eds.) *Encyclopedia of Child Behavior and Development*. (pp. 90-91). New York: Springer Science+Business Media, LLC.
- Kyonka, E. G. E. (2011).** Law of effect. In S. Goldstein & J. A. Naglieri (Eds.) *Encyclopedia of Child Behavior and Development*. (pp. 868-870). New York: Springer Science+Business Media, LLC.
- Kyonka, E. G. E. (2011).** Operant conditioning. In S. Goldstein & J. A. Naglieri (Eds.) *Encyclopedia of Child Behavior and Development*. (pp. 1038-1040). New York: Springer Science+Business Media, LLC.

Kyonka, E. G. E. (2011). Premack principle. In S. Goldstein & J. A. Naglieri (Eds.) *Encyclopedia of Child Behavior and Development*. (pp. 1147-1148). New York: Springer Science+Business Media, LLC.

Select manuscripts in preparation

Fox, A. E., & **Kyonka, E. G. E.** (2021). Applying a simple regression-based statistical analysis to single-subject data in Behavior Analysis: A tutorial and exploration of the advantages and disadvantages that lie therein. Manuscript in preparation.

Subramaniam, S., & **Kyonka, E. G. E.** (2021). Human temporal discrimination can adapt to mixed signals. Manuscript in preparation.

GRANTS AND FUNDING

- 2021 PI: **Elizabeth Kyonka**. *Functional assessment of internet gaming*. Collaborative Research Award, CSUEB College of Science.
- 2019-2020 Clinical Lead: Martin M. Antony. *Increasing Access to Structured Psychotherapy*, Ontario Ministry of Health and Long Term Care. Role: Content developer.
- 2014-2016 **Sponsorship Program Fellow, West Virginia University ADVANCE** Mentorship, professional development and research funding.
- 2014-2015 PI: **Elizabeth Kyonka**. *Behavioral flexibility and climate change*. WVU, Faculty Senate Research Grant
- 2013 PI: **Elizabeth Kyonka**. *Proof-of-concept for operant-conditioning research with white-crowned pigeons*. WVU, Faculty Development Grant.
- 2010-2013 PI: Claire St. Peter. *Parent-Implemented Training for Autism via Telemedicine*. Department of Health and Human Services Role: Statistical Consultant
- 2012 PI: **Elizabeth Kyonka**. *Mathematical Foundations of Time Critical Judgments of Value*. Eberly College of Arts and Sciences Mini-Grant Program
- 2007-2009 **Elizabeth Kyonka**. *Understanding the underlying mechanisms of choice and timing in transition*. Postgraduate Scholarship Abroad, Natural Sciences and Engineering Research Council of Canada

CONFERENCE PRESENTATIONS

Student authors from my laboratory are underlined.

Invited Talks

Kyonka, E. G. E. (March, 2019). *Hypotheses Disco: Learning to Time*. Invited Presentation, 2019 Meeting of the Texas Association for Behavior Analysis, Fort Worth, TX, USA.

Kyonka, E. G. E. (May, 2018). *Selection by scientific consequences in the ecology of behavior analysis*. Invited SQAB Tutorial, 44th Annual Meeting of the Association for Behavior Analysis International (ABAI), San Diego CA, USA.

Kyonka, E.G.E. (April, 2014). *Change is the only constant: choice adaptation in an unpredictable world*. Virginia Association for Behavior Analysis, Leesburg, VA USA.

Kyonka, E.G.E. (June, 2013). *Determiners of change detection in choice adaptation*. Center for Neuroscience Retreat, Roanoke, WV USA.

Kyonka, E.G.E. (May, 2013). *Behavior in transition: Contextual cues and discriminative stimuli*. 36th Annual Conference of the Society for Quantitative Analyses of Behavior (SQAB), Minneapolis, MN USA.

Kyonka, E.G.E. (March, 2012). *From pigeon pecks to card decks: quantitative models of human choice* Colloquium at the Open Polytechnic of New Zealand, Wellington, New Zealand.

Kyonka, E.G.E. (March, 2012). *Applying quantitative models from pigeon operant research to human choice*. Victoria University of Wellington, Wellington, New Zealand.

Kyonka, E.G.E. (February, 2012). *Quantitative models of human choice*. Colloquium at Monash University, Melbourne, VIC Australia.

Kyonka, E.G.E. (October, 2011). *The F-word in model-building and behavior analysis*. 28th Annual Conference of the Southeastern Association for Behavior Analysis (SEABA), Charlotte, NC USA.

Papers and Symposia

Kyonka, E. G. E. & Subramaniam, S. (May, 2021). *The untapped translational potential of interval timing research*. Accepted for presentation as part of the symposium How to Think About Time at 47th ABAI, [virtual].

Kyonka, E. G. E. (May, 2019). *Challenge and convention: Effect sizes in multiple regression*. 45th ABAI, Chicago IL USA.

Kyonka, E. G. E. (May, 2019). *The future of choice in behavior analysis*. Invited Panel, 45th ABAI, Chicago IL USA.

- Eckard, M. L., **Kyonka, E. G. E.** (May, 2018). *Differential effects of differential reinforcement of low rate on timing precision in a peak procedure*. 44th ABAI, San Diego CA USA.
- Kyonka, E. G. E.**, Subramaniam, S. (August, 2017). *Behaviour Analysis: A Taxonomy*. 14th Annual Conference of the New Zealand Association for Behaviour Analysis (NZABA), Wellington, NZ.
- Kyonka, E. G. E.** (July, 2017). *Interval timing as a crucible for incommensurability in comparative psychology*. Mid-Year Meeting of the Australian Learning Group, Katoomba NSW Australia.
- Kyonka, E. G. E.** (December, 2016). *The scientist in the coop: hypothesis testing in pigeons*. Christmas Workshop for the Australian Learning Group, Sydney NSW Australia.
- Kyonka, E. G. E.**, Subramaniam, S., & Fox, A.E. (September, 2016). *Human free-operant interval timing: Basic principles to bedside*. Inaugural conference of the Association for Behavior Analysis Australia, Melbourne VIC Australia.
- Subramaniam, S., & **Kyonka, E. G. E.** (May, 2016). *Beyond face validity: Peak procedures with humans*. 42nd ABAI, Chicago, IL, USA.
- Fox, A. E., Prue, K. E., **Kyonka, E. G. E.** (May, 2015). *Human and pigeon timing in a fixed-interval free-operant psychophysical choice procedure*. 41st ABAI, San Antonio TX USA.
- Rice, N., **Kyonka, E. G. E.** (May, 2015). *Conditioned reinforcement effects of discriminative stimuli in concurrent-chains procedures*. 41st ABAI, San Antonio TX USA.
- Subramaniam, S., **Kyonka, E. G. E.** (May, 2015). *Human and pigeon timing in multiple and mixed peak procedures*. 41st ABAI, San Antonio TX USA.
- Rice, N., Ward, A. A., **Kyonka, E. G. E.** (May, 2014). *Conditioned reinforcement effects of near wins in a pigeon slot machine analog*. 40th ABAI, Chicago IL USA.
- Subramaniam, S., Grace, R. C., **Kyonka, E. G. E.** (May, 2014). *Resolution evolution: the global and local analysis of generalized matching relations*. 40th ABAI, Chicago IL USA.
- Ward, A. A., Rice, N., **Kyonka, E. G. E.** (May, 2014). *Effects of alcohol on pigeons' behavior in a slot machine analog*. 40th ABAI, Chicago IL USA.
- Fox, A. E., **Kyonka, E. G. E.** (May, 2013). *Individual differences in human choice behavior in the presence of rules*. 39th ABAI, Minneapolis, MN USA.
- Rice, N., **Kyonka, E. G. E.** (May, 2013). *Effects of near wins and d-Amphetamine on responding in a pigeon slot machine analogue*. 39th ABAI, Minneapolis, MN USA.
- Fox, A. E., **Kyonka, E. G. E.** (May, 2012). *Pigeon responding on fixed-interval and response-initiated fixed-interval schedules*. 38th ABAI, Seattle, WA USA.

Kyonka, E. G. E., Tan, L. C. M. (May, 2012). *The power of 3-alternative choice procedures as severe tests for extensions of generalized matching*. 38th ABAI, Seattle, WA USA.

Rice, N., **Kyonka, E. G. E.** (May, 2012). *Acquisition of temporal control to signaled and unsignaled interval changes*. 38th ABAI, Seattle, WA USA.

Tan, L. C. M., **Kyonka, E. G. E.** (May, 2012). *Choice behaviour in dynamic environments: response variability and sensitivity in a rock paper scissors game*. 38th ABAI, Seattle, WA USA.

Fox, A. E., **Kyonka, E. G. E.** (March, 2012). *Stimulus onset and key-peck responses as time markers for pigeons*. 19th Annual International Conference on Comparative Cognition, Melbourne Beach, FL USA.

Rice, N., **Kyonka, E. G. E.** (March, 2012). *Near-win density in a pigeon slot machine analogue*. 19th Annual International Conference on Comparative Cognition, Melbourne Beach, FL USA.

Rice, N., **Kyonka, E. G. E.**, Grace, R. C. (May, 2011). *Within-session acquisition in a rapid acquisition multiple peak interval procedure is equivalent for correlated and uncorrelated schedules*. 37th ABAI, Denver, CO USA.

Kyonka, E. G. E. (May, 2010). *Determination of value: A quasidynamic linear-operator model*. 36th ABAI, San Antonio, TX USA.

Grace, R. C., **Kyonka, E. G. E.** (May, 2010). *Molar and molecular analyses of choice and timing*. 36th ABAI, San Antonio, TX USA.

Grace, R. C., **Kyonka, E.G.E.** & Christensen, D.R. (August, 2009). *Choice as cumulative discrimination: A model for response allocation in transition and steady-state*. 5th International Association for Behavior Analysis Conference, Oslo, Norway.

Kyonka, E. G. E. & Grace, R. C. (May, 2009). *An integrated model of choice and timing in concurrent chains*. 35th ABAI, Phoenix, AZ USA.

McKinlay, A., **Kyonka, E. G. E.**, Grace, R., Horwood, L. J., Fergusson, D., MacFarlane, M. (May 2009) *Pre-Injury characteristics of children who experience traumatic brain injury (TBI) during childhood*. 32nd Australian Society for the Study of Brain Injury, Sydney Australia

Kyonka, E. G. E. (August, 2008). *Pigeons as intuitive statisticians: Evidence from a multiple peak-interval procedure*. 5th NZABA, Dunedin, New Zealand.

Grace, R. C., Christensen, D.R., **Kyonka, E.G.E.** (May, 2008). *Choice as cumulative discrimination: A model for response allocation in transition and steady-state*. 31st SQAB, Chicago, IL USA.

Kyonka, E. G. E. & Grace, R. C. (May, 2008). *Rapid acquisition of temporal control in a multiple-peak procedure*. 34th ABAI, Chicago, IL USA.

Kyonka, E. G. E. & Grace, R. C. (August, 2007). *Rapid Acquisition in Concurrent Chains: Effects of Terminal-Link Duration*. 4th International Association for Behavior Analysis Conference, Sydney, Australia.

Kyonka, E. G. E. & Grace, R. C. (May, 2007). *Assessing Performance in Concurrent Chains: The More Things Change, the More They Stay the Same*. 33rd ABAI, San Diego, CA USA.

Kyonka, E. (October, 2006). *Smart heuristics that make life simple: Choice and decision-making in the laboratory and in 'real life'*. University of Canterbury Postgraduate Showcase, Christchurch, New Zealand.

Kyonka, E. & Grace, R. (September, 2006). *Smart heuristics that make life simple: Response allocation in concurrent chains where reinforcement varies on multiple dimensions*. 3rd NZABA, Hamilton, New Zealand.

Kyonka, E. (September, 2004). *Characteristics of response bouts under fixed schedules of temporal conditioning*. 1st NZABA, Christchurch, New Zealand.

Kyonka, L. (August, 2002). *Postnatal Development of Vesicular Glutamate Transporter Immunoreactivity in the Rat Somatosensory Cortex*. Center for Neuroscience Student Seminars, University of Pittsburgh, Pittsburgh, PA.

Posters

Laposa J.M., Agic, B., Antony, M. M., Asmundson, J. G., Carter, S., Denisoff, E., Fruitman, F., Furer, P., **Kyonka, E. G. E.**, Lyons, A., Milosevic, M., Moscovitch, D. A., Naeem, F., Ronda, N., & Rowa, K. (accepted for presentation, May, 2021). *A provincial online blended learning training course on cbt for social anxiety disorder, specific phobia, and health anxiety*. The Canadian Association of Cognitive and Behavioural Therapies (CACBT), [Virtual conference].

Laposa J.M., Agic, B., Ahmadinia, J., Antony, M. M., Bartoshuk-Boerbridge, M., Carter, S., Claggett Woods, C., Corsini, A., Effendof, A., Foa, E., Frisna, C., **Kyonka, E. G. E.**, Lyons, A., MacLellan, W., Monson, C., Naeem, F., Purdon, C., Rector, N. A., Ronda, N., Roth, M., Quick, N., & Shnaider, P. (accepted for presentation, May, 2021). *Disseminating CBT for OCD and PTSD: a preliminary investigation of the provincial online blended learning training course*. CACBT, [Virtual conference].

Reid, A. K., **Kyonka, E. G. E.**, & Cowie, S. (May, 2019). *Measuring transfer of stimulus control: Pigeons acquiring behavioral skills*. 45th ABAI, Chicago, IL, USA.

Borlase, M., Roche, L., Bizo, L., Malouff, J., **Kyonka, E.**, Wark, S., Dunstan, D. (September, 2018). *Quantitative review of the application of ABA in dementia care*. 15th NZABA, Auckland, New Zealand.

- Eckard, M., & Kyonka, E. G. E. (May, 2017). *Good things don't come to those who wait: Effects of differential DRL exposure on timing and subsequent ethanol choice.* 43rd ABAI, Denver, CO, USA.
- Bell-Garrison, D., Eckard, M. E., Kyonka, E. G. E. (May, 2017). *The nature of reinforcement is more important than the number of dimensions.* 40th SQAB, Denver, CO USA.
- Eckard, M. E., Kyonka, E. G. E. (May, 2017). *Bout engagement in differential reinforcement of low rate schedules.* 40th SQAB, Denver, CO USA.
- Subramaniam, S., Kyonka, E. G. E. (May, 2017). *Human selective attention in a peak-interval procedure.* 40th SQAB, Denver, CO USA.
- Eckard, M., & Kyonka, E. G. E. (October, 2016). *Effects of differential DRL exposure on interval timing.* 33rd SEABA, Winston-Salem, NC, USA.
- Bell-Garrison, D., & Kyonka, E. G. E. (May, 2016). *Signaling changes in reinforcer ratios facilitates adaptive forgetting in pigeons.* 42nd ABAI, Chicago, IL, USA.
- Bell-Garrison, D., Kyonka, E. G. E., Grace, R. C. (May, 2016). *Predictable changes in relative immediacy alter within-session response patterns.* 39th SQAB, Chicago IL USA.
- Subramaniam, S., Kyonka, E. G. E. (May, 2016). *Pigeons time noisy intervals.* 39th SQAB, Chicago IL USA.
- Bell-Garrison, D., & Kyonka, E. G. E. (October, 2015). *Remembering and adaptive forgetting.* 32nd SEABA, Roanoke, VA, USA.
- Manning, T.A., Bell-Garrison, D., & Kyonka, E. G. E. (October, 2015). *Comparing breakpoints between white crowned pigeons and rock doves on a progressive-ratio schedule.* 32nd SEABA, Roanoke, VA, USA.
- Subramaniam, S., & Kyonka, E. G. E. (October, 2015). *Misinformation and the temporal control of human behavior.* 32nd SEABA, Roanoke, VA, USA.
- Kyonka, E. G. E., Bell-Garrison, D., Subramaniam, S., Anderson, J., (May, 2015). *White-crowned pigeons are more sensitive to immediacy than rock doves.* 41st ABAI, San Antonio TX USA.
- Bell-Garrison, D., Kyonka, E. G. E. (May, 2015). *Analysis of change points when reinforcer rate and magnitude change unpredictably.* 38th SQAB, San Antonio TX USA.
- Subramaniam, S., Kyonka, E. G. E. (May, 2015). *When cues deceive: Timing with cued, uncued and miscued intervals.* 38th SQAB, San Antonio TX USA.
- Subramaniam, S., Kyonka, E. G. E. (October, 2014). *Temporal control in multiple and mixed peak-interval schedules.* 31st SEABA, Wilmington, NC, USA.

- Fox, A. E., Lastinger, D. A., Kyonka, E. G. E. (May, 2014). *Temporal control in signaled response-initiated fixed-interval schedules: Aggregated and single-trial analyses*. 40th ABAI, Chicago IL USA.
- Fox, A. E., Prue, K. E., Kyonka, E. G. E. (May, 2014). *Human and pigeon timing in a fixed-interval free-operant psychophysical choice procedure*. 37th SQAB, Chicago IL USA.
- Rice, N., Ward, A. A., Kyonka, E. G. E. (May, 2014). *Categorizing patterns of acquisition in a pigeon slot machine analog using polynomial regression*. 37th SQAB, Chicago IL USA.
- Subramaniam, S., Kyonka, E. G. E. (May, 2014). *Pigeons' temporal discrimination is equivalent in peak and free-operant psychophysical procedures*. 37th SQAB, Chicago IL USA.
- Ward, A. A. & Kyonka, E. G. E. (May, 2014). *Comparing response proportion and rate as measures of arousal in a pigeon model of slot-machine play*. 37th SQAB, Chicago IL USA.
- Lastinger, D. A., Fox, A. E., Kyonka, E. G. E. (October, 2013). *Effects of Signaling on Temporal Control in Response-Initiated Fixed-Interval Schedules*. 30th SEABA, Myrtle Beach, NC, USA.
- Subramaniam, S., Kyonka, E. G. E. (October, 2013). *Unequal preference with equal time to food*. 30th SEABA, Myrtle Beach, NC, USA.
- Ward, A., Kyonka, E. G. E. (October, 2013). *Session Length and Gambling*. 30th SEABA, Myrtle Beach, NC, USA.
- Close, J. A., Subramaniam, S., Fox, A. E., Kyonka, E. G. E. (May, 2013). *Home-cage enrichment and temporal control in a free-operant psychophysical choice procedure*. 39th ABAI, Minneapolis, MN USA.
- Lastinger, D. A., Subramaniam, S., Rice, N., Kyonka, E. G. E. (May, 2013). *Home-cage enrichment and responding to near-win stimuli in a pigeon slot-machine analogue*. 39th ABAI, Minneapolis, MN USA.
- Fox, A. E., Kyonka, E. G. E. (May, 2013). *Temporal discrimination in response-initiated fixed intervals*. 36th SQAB, Minneapolis, MN USA.
- Rice, N., Kyonka, E. G. E. (May, 2013). *Adaptation of temporal control to signaled and unsignaled mid-session changes in a rapid acquisition multiple peak-interval procedure*. 36th SQAB, Minneapolis, MN USA.
- Subramaniam, S., Kyonka, E. G. E. (May, 2013). *Choice and timing are dissociated in unchanging environments and interdependent in unpredictably changing environments*. 36th SQAB, Minneapolis, MN USA.
- Subramaniam, S., Kyonka, E. G. E. (May, 2013). *Contrasting molar and molecular approaches to evaluating adaptation of response allocation*. 39th ABAI, Minneapolis, MN USA.

Fahnestock, M. M., Fox, A. E., Kyonka, E. G. E. (October, 2012). *Human performance in a fixed-interval free-operant psychophysical choice procedure*. 29th SEABA, Columbia, SC, USA.

Fox, A. E., Reid, A. K., Kyonka, E. G. E. (October, 2012). *Behavioral history and pigeons' "Guiding Cues" performance*. 29th SEABA, Columbia, SC, USA.

Rice, N., Anderson, K. G., Kyonka, E. G. E. (October, 2012). *Effects of d-amphetamine on responding in a pigeon slot machine analog*. 29th SEABA, Columbia, SC, USA.

Subramaniam, S., Kyonka, E. G. E. (October, 2012). *Characterizing response patterns in concurrent chains with change point analyses*. 29th SEABA, Columbia, SC, USA.

Fox, A. E., Kyonka, E. (May, 2012). *Preference for undiscriminated intervals as a possible explanation for state-dependent learning*. 35th SQAB, Seattle, WA USA.

Goode, S., Subramaniam, S., Kyonka, E. (May, 2012). *Pigeons learn to choose a large reinforcer and to avoid choosing a small reinforcer in a three-key concurrent schedule*. 35th SQAB, Seattle, WA USA.

Rice, N., Kyonka, E. (May, 2012). *The conditioned value of stimuli that signal wins control response rate in a pigeon slot machine analogue with near wins*. 35th SQAB, Seattle, WA USA.

Subramaniam, S., Kyonka, E. G. E., Grace, R. C. (May, 2012). *Interdependence and dissociation of the mechanisms that govern choice and timing acquisition*. 38th ABAI, Seattle, WA USA.

Fox, A.E. & Kyonka, E. G. E. (October, 2011). *Searching for the variables that control 'insensitivity' in human rule-governed behavior*. 28th SEABA, Charlotte, NC USA.

Rice, N. & Kyonka, E. G. E. (October, 2011). *Adaptation of temporal control to frequent unsigned interval changes*. 28th SEABA, Charlotte, NC USA.

Kyonka, E. G. E. (May, 2011). *Models of behavior adaptation: Prediction, precision and the best of both worlds*. 37th ABAI, Denver, CO USA.

Kyonka, E. & Grace, R. C. (May, 2011). *Transitions between unpredictably changing and unchanging terminal-link immediacy ratios have differential effects on response allocation at the beginnings and ends of sessions*. 34th SQAB, Denver CO, USA.

Fox, A.E. & Kyonka, E. (May, 2011). *Optimal foraging theory and NCAA basketball*. 34th SQAB, Denver CO, USA.

Rice, N. & Kyonka, E. (May, 2011). *Adaptation to mid-session changes in a rapid acquisition multiple peak-interval procedure*. 34th SQAB, Denver CO, USA.

Fox, A. E. & Kyonka, E. G. E. (November, 2010). *State-dependent learning in pigeons*. 27th SEABA, Asheville, NC USA.

- Kyonka, E.** & Grace, R. (May, 2010). *Nondifferential signaling of terminal links reduces initial- and terminal-link sensitivity to immediacy*. 33rd SQAB, San Antonio, TX USA.
- Kyonka, E. G. E.**, Hucks, A. D., & Tan, L. C. M. (May, 2009). *Fixed and variable schedules of reinforcement on Facebook*. 35th ABAAI, Phoenix, AZ USA.
- Kyonka, E.** & Grace, R. (May, 2009). *Effects of absolute terminal-link duration on response allocation dynamics*. 32nd SQAB, Phoenix, AZ USA.
- Kyonka, E.**, Grace, R. & Christensen, D. (May, 2008). *An effect of initial-link duration on rapid acquisition of choice but not timing*. 31th SQAB, Chicago, IL USA.
- Kyonka, E.** (May, 2007). *Rate, magnitude and the matching law in transition*. 30th SQAB, San Diego, CA USA.
- Christensen, D., **Kyonka, E.** & Grace, R. (May, 2006). *Choice and timing in concurrent chains when terminal link delays follow an ascending and descending series*. 29th SQAB, Atlanta, GA USA.
- Kyonka, E.** & Grace, R. (May, 2006). *Pigeons' timing but not choice adapts to suddenly equivalent terminal links*. 29th SQAB, Atlanta, GA USA.
- Kyonka, E.** & Grace, R. (May, 2005). *Successful adaptation of pigeons' choice and timing behavior to rapid changes in terminal link delay*. 28th SQAB, Chicago, IL USA.
- Kyonka, E.** & MacInnis, M. L. M. (May, 2004). *Characteristics of response bouts under fixed schedules of temporal conditioning*. 27th SQAB, Boston, MA USA.

TEACHING

Undergraduate classes taught

California State University – East Bay

PSYC 300: Experimental Psychology
PSYC 310: Conditioning and Learning
PSYC 413: Advanced Conditioning and Learning
PSYC 490: Independent Study
PSYC491A: Research in Conditioning and Learning

University of New England

PSYC 202: Research Methods and Statistics

West Virginia University

BIOL 337/PSYC 426: Physiological Psychology
PSYC 202: Research Methods in Psychology

PSYC 424: Learning and Behavior Theory
PSYC 490: Undergraduate Teaching Assistantship in Psychology
PSYC 495: Undergraduate Research Assistantship in Psychology

Graduate classes taught

West Virginia University

PSYC 511: Research Design and Data Analysis I
PSYC 531: Experimental Analysis of Behavior
PSYC 731: Research Issues in Behavior Analysis
PSYC 733: Stimulus Control and Memory
PSYC 736: Advanced Experimental Analysis of Behavior: Topics in the Quantitative Analysis of Behavior
PSYC 790: Graduate Teaching Practicum
PSYC 795: Independent Research

Team Teaching

University of New England

PSYC 101: Introduction to Psychology

University of Canterbury

PSYC 206: Research Design and Statistics
PSYC 211: Personality
PSYC 334: Learning and Behaviour Analysis
PSYC 344: Research Methods
PSYC 460: Postgraduate Research Methods in Psychology
Advanced Statistics Consultant

Undergraduate theses and Capstone projects chaired

University of New England

Michelle Pitkin, 2018. Honours thesis. *Responses to effects of wins, losses and near wins*. Winner, University Medal.

Graham Youdale, 2018. Honours thesis. *Comparing vigilance, hazard-perception and sensation-seeking capacities of road users (cyclists and drivers)*.

Keneshia Chapman, 2017. Honours thesis. *Influence of alternate reinforcers on the responses of rats during the peak procedure*.

Rachael Cleary, 2017. Honours thesis. *Near miss effects on delay discounting using a pokie machine gambling simulation*.

Caitlin Jeremy, 2017. Honours thesis. *Delay discounting and early life trauma in a rodent model.*

Amy Norman, 2017. Honours thesis. *How does priming affect implicit bias towards Muslims?*

West Virginia University

Teraesa Manning, 2015. Capstone. *Comparing breakpoints between white crowned pigeons and rock doves on a progressive-ratio schedule.*

Lonnie Trump, 2015. Capstone. *Effects of maintaining pigeons at different weights under a concurrent-chains procedure.*

Jessica Close, 2013. Capstone. *Home-cage enrichment and temporal control in a free-operant psychophysical choice procedure.*

Melissa M. Fahnestock, 2013. Honors thesis. *Strategy of non-gamblers on three variations of the Iowa Gambling Task.*

Dwight Lastinger, 2013. Capstone. *Home-cage enrichment and responding to near-win stimuli in a pigeon slot-machine analogue.*

Sarah Goode, 2012. Capstone. *Pigeons learn to choose a large reinforcer and to avoid choosing a small reinforcer in a three-key concurrent schedule.*

Mathew Bruckner, 2012. Capstone. *Sub-optimal choice behavior on concurrent chains schedules.*

Jillian Corbett, 2011. Capstone. *Perceptions, practices, and actualities of collective options on multiple choice exams.*

Megha Gandhi, 2011. Capstone. *Effect of stress on memory.*

Matthew Earle, 2011. Capstone. *Preferences in reinforcement magnitude between Carneaux pigeons.*

Danielle Jeffry, 2010. Capstone. *The relationship between sleep duration and academic achievement.*

Seth Nelson, 2010. Capstone. *Extra credit: How much of an effect does it have on students' final grade?*

Molly Jenkins, 2010. Capstone. *Misconceptions in psychology students at West Virginia University.*

Masters theses chaired

West Virginia University

Matthew Eckard, 2017. Thesis titled *Differential DRL exposure on subsequent interval timing: Information vs. inhibition*.

Daniel Bell-Garrison, 2016. Thesis titled *Within-session rapid acquisition of choice in pigeons*.

Alexander Ward, 2014. Thesis titled *Effects of alcohol on pigeons' near-win responding in a slot machine analog*.

Nathaniel Rice, 2013. Thesis titled *Adaptation of temporal control to unpredictable mid-session changes in a rapid-acquisition multiple peak-interval procedure*.

Shrinidhi Subramaniam, 2013. Thesis titled *Adjustment of initial- and terminal-link response patterns to suddenly-equivalent terminal links*.

Doctoral dissertations chaired

West Virginia University

Shrinidhi Subramaniam, 2016. Dissertation titled *Pigeons and humans time miscued intervals*. Upon graduation: Postdoctoral Fellow, Johns Hopkins University. Current position: Assistant Professor, Department of Psychology and Child Development, California State University, Stanislaus CA

Nathaniel Rice, 2014. Dissertation titled *Conditioned reinforcement effects of near wins*. Winner, 2016 APA Division 25 Basic Dissertation Award. Upon graduation: Research Scientist, Aberdeen Proving Ground, MD

Adam E. Fox, 2013. Dissertation titled *Temporal discrimination of fixed intervals initiated via a response*. Winner, 2013 Hake Award. Upon graduation: Assistant Professor in the Psychology Department at Saint Lawrence University, Canton, NY. Current position: Associate Professor.

Continuing professional education courses developed

Centre for Addiction and Mental Health

CBT for Anxiety-Related Disorders II (Social Anxiety)

CBT for Anxiety-Related Disorders III (Posttraumatic Stress – Prolonged Exposure)

CBT for Depressive Disorders (Behavioural Activation, Behaviour Change)

Managing Mental Health During COVID-19 for CBT Therapists (Adapting Your Practice) *to be available at mentalhealth-covid.ca*

Managing Mental Health During COVID-19 for Frontline Workers (Addressing the Client's Mental Health Concerns) *available at mentalhealth-covid.ca*

Other teaching activities

Supervised 16 additional undergraduate research assistants for 2-5 semesters each
Supervised 12 graduate and 7 undergraduate teaching assistants
Member (non-chair) of 15 dissertation or doctoral thesis committees
Member (non-chair) of 9 masters thesis committees
Member (non-chair) of 16 preliminary examination committees

Administration of teaching

As Higher Degree Research (HDR) Coordinator for the School of Behavioural, Cognitive and Social Sciences of the University of New England in 2017-2018:

Chaired 14 Confirmation Panels for HDR theses
Handled admissions, scholarships, progress reports and variations to candidature for 80 HDR students
Tripled the number of International Postgraduate Research Scholarships awarded to applicants from our school

AWARDS AND HONORS

- 2019-2020 Winner (awarded to team), Fred Fallis Award in Online Learning. Recognizes *Ontario Structured Psychotherapy (OSP) Program: Cognitive Behavioural Therapy (CBT) for Anxiety and Related Disorders* program for demonstrated excellence in online program development and learner engagement.
- 2018-2019 Winner (awarded to team), Ivan Silver Innovation Award. Recognizes *Increasing Access to Structured Psychotherapy* as an innovative Continuing Professional Development initiative.
- 2014-2015 Elected President, *Southeastern Association for Behavior Analysis*
- 2010-2014 Elected Secretary, *Society for the Quantitative Analyses of Behavior*
- 2010-2012 Elected to the Board of Directors, *Southeastern Association for Behavior Analysis*
- 2006 Best Speaker, University of Canterbury Postgraduate Showcase
- 2006 Best Speaker, 3rd NZABA

SERVICE

Conference boards and committees

President

Southeastern Association for Behavior Analysis (Elected), 2014-2015

Program Chair

Southeastern Association for Behavior Analysis (Appointed), 2012

Secretary

Society for the Quantitative Analyses of Behavior (Elected), 2010-2014

Board Member

Association for Behavior Analysis International Program Committee Experimental
Analysis of Behavior Co-Coordinator, 2015-2019

Society for the Quantitative Analyses of Behavior Board of Directors, 2010-2014

Southeastern Association for Behavior Analysis Board of Directors, 2010-2012

Editorial service for professional journals

Associate Editor

Journal of the Experimental Analysis of Behavior, 2020-present

Journal of Gambling Issues, 2019-2020

The Psychological Record, 2017-2020

Guest Associate Editor

Behavioural Processes, 2019

Board Member

Analysis of Gambling Behavior, 2017-present

Journal of the Experimental Analysis of Behavior, 2010-2012, 2018-2020

Perspectives on Behavior Science, 2018-present

Ad hoc reviewer

Addictive Behaviors

Animal Cognition

Behavioural Processes

Evidence-based Communication Assessment and Intervention

Journal of Applied Behavior Analysis

Journal of Experimental Psychology: Animal Learning & Cognition

Journal of the Experimental Analysis of Behavior

International Gambling Studies

Learning and Behavior

Revista Mexicana de Análisis de la Conducta

The Behavior Analyst

The International Journal of Aging and Human Development
The Psychological Record

Service reviewing grants

Panelist

National Science Foundation: IOS Animal Behavior Program

Ad hoc reviewer

National Science Foundation: BCS Perception, Action & Cognition

National Science Foundation: SES Decision, Risk & Management Science

National Science Foundation: IOS Animal Behavior Program

Reviews of textbooks

Learning & Behavior: Eighth Edition. J. E. Mazur.

SPSS Statistics Version 22: A Practical Guide. P. Allan, K. Bennet, B. Heritage.

Institutional and departmental service

College of Science, California State University, East Bay
Scholarships and Awards Committee (2021-present)

Department of Psychology, California State University, East Bay
Resources Committee (2020-present)

Centre for Addiction and Mental Health
Gambling Research to Policy Group (2019-2020)

University of New England
Graduate Research Subcommittee (2017-2018)
Scholarships Committee (2017-2018)

School of Psychology and Behavioral Science, Faculty of Medicine, University of New England
Discipline of Psychology Committee (2018-2019)

School of Behavioural, Cognitive and Social Sciences, University of New England
BCSS Executive Committee (2017)
Senior Management (2017)
Discipline of Psychology (2016-2017)
Research & Postgraduate Committee (2016-2017)
Clinical Admissions (2016)

Discipline of Zoology, University of New England
Panelist, BZool review (2017)

Department of Psychology, West Virginia University
Faculty Committee (2009 – 2016)
Behavior Analysis Training Committee (2009 – 2016)
Clinical Training Committee (2009 – 2010, 2013-2016)
Developmental Training Committee (2010 – 2013)
Methodology Working Group (2009 – 2010)

Center for Neuroscience, West Virginia University
Behavioral Neuroscience (2011-2015)
Addiction Research Group (2015-2016)

Community Outreach – Public Presentation

Kyonka, E. G. E. (March, 2021). *What we know about treating problem gaming*. Invited Webinar, Centre for Addiction and Mental Health Gambling, Gaming and Technology Use.

Professional Development

ACUE Microcredential in *Inspiring Inquiry and Lifelong Learning in Your Online Course*
Association of College and University Educators, 2021 [Badgr link](#)

ACUE Microcredential in *Promoting Active Learning Online*
Association of College and University Educators, 2021 [Badgr link](#)

ACUE Microcredential in *Creating an Inclusive and Supportive Online Learning Environment*
Association of College and University Educators, 2020 [Badgr link](#)

These micro-credentials signify my completion of an ACUE course requiring the implementation of evidence-based instructional approaches. The credentials are co-issued by the American Council on Education and were developed to distinguish faculty for their commitment to educational excellence and student success.

Leading and Managing @ UNE
University of New England Human Resources, 2017

The 2017 Leading and Managing @ UNE Leadership Program was developed to align with the UNE 2016-2020 Strategic Plan: Together, we can do this. The program consisted of four modules (Strategy into action, Enduring partnerships, Agile and resilient teams, Leading change) and concluded with a presentation delivered by participants on Thursday 21 September 2017.