References

- Aguilera-Pickens, G., & Abud-Mendoza, C. (2013). Neuropsychiatric manifestations in systemic lupus erythematosus: physiopathogenic and therapeutic basis. *Reumatologia Clinica*, 9(6), 331–333. https://doi.org/10.1016/j.reuma.2013.02.007
- Alves-Pinto, A., Rus, O. G., Reess, T. J., Wohlschläger, A., Wagner, G., Berberich, G., & Koch, K. (2019). Altered reward-related effective connectivity in obsessive-compulsive disorder: an fMRI study. *Journal of Psychiatry & Neuroscience: JPN*, 44(6), 395–406. https://doi.org/10.1503/jpn.180195
- Anderson, M. A. B., & Stanger, C. (n.d.). Delay discounting and symptoms of anxiety and depression in adolescents experiencing challenges with managing type 1 diabetes. *Children's Health Care:*Journal of the Association for the Care of Children's Health, 1–16.

 https://doi.org/10.1080/02739615.2023.2226393
- Bennett, D., Sutcliffe, K., Tan, N. P.-J., Smillie, L. D., & Bode, S. (2021). Anxious and obsessive-compulsive traits are independently associated with valuation of noninstrumental information. *Journal of Experimental Psychology. General*, *150*(4), 739–755. https://doi.org/10.1037/xge0000966
- Campbell, J. A., & Egede, L. E. (2022). 56-OR: Relationship between Delay Discounting and Psychological Health in Adults with Type 2 Diabetes. *Diabetes*, *71*(Supplement_1), 56 OR. https://doi.org/10.2337/db22-56-OR
- Carlisi, C. O., Norman, L., Murphy, C. M., Christakou, A., Chantiluke, K., Giampietro, V., Simmons, A.,
 Brammer, M., Murphy, D. G., MRC AIMS consortium, Mataix-Cols, D., & Rubia, K. (2017).
 Comparison of neural substrates of temporal discounting between youth with autism spectrum disorder and with obsessive-compulsive disorder. *Psychological Medicine*, *47*(14), 2513–2527.
 https://doi.org/10.1017/S0033291717001088
- Cremers, H. R., Veer, I. M., Spinhoven, P., Rombouts, S. A. R. B., & Roelofs, K. (2014). Neural sensitivity to social reward and punishment anticipation in social anxiety disorder. *Frontiers in Behavioral Neuroscience*, *8*, 439. https://doi.org/10.3389/fnbeh.2014.00439
- Dedović, N. (2022). Selection of economically rational investments through cost benefit analysis. *Ekonomski Signali*, 17(2), 95–103. https://doi.org/10.5937/ekonsig2202095d

- Examining the Effects of Stress and Age on Neural Reward Processing: Considerations for the Role of Individual Differences in Autonomic Reactivity (Vol. 22583708). (2019).

 https://search.proquest.com/openview/90274d70242d8bb4a5aca9233446222a/1?pq-origsite=gsc holar&cbl=18750&diss=y
- Felton, J. W., Strutz, K. L., McCauley, H. L., Poland, C. A., Barnhart, K. J., & Lejuez, C. W. (2020).
 Delay Discounting Interacts with Distress Tolerance to Predict Depression and Alcohol Use
 Disorders among Individuals Receiving Inpatient Substance Use Services. *International Journal of Mental Health and Addiction*, 18(5), 1416–1421. https://doi.org/10.1007/s11469-019-00163-5
- Friedman, J. H. (2001). Greedy function approximation: A gradient boosting machine. *The Annals of Statistics*, 29(5), 1189–1232. https://doi.org/10.1214/aos/1013203451
- George, S. A., Sheynin, J., Gonzalez, R., Liberzon, I., & Abelson, J. L. (2019). Diminished Value Discrimination in Obsessive-Compulsive Disorder: A Prospect Theory Model of Decision-Making Under Risk. Frontiers in Psychiatry / Frontiers Research Foundation, 10, 469. https://doi.org/10.3389/fpsyt.2019.00469
- Haines, N., Beauchaine, T. P., Galdo, M., Rogers, A. H., Hahn, H., Pitt, M. A., Myung, J. I., Turner, B.
 M., & Ahn, W.-Y. (2020). Anxiety Modulates Preference for Immediate Rewards Among
 Trait-Impulsive Individuals: A Hierarchical Bayesian Analysis. *Clinical Psychological Science*,
 8(6), 1017–1036. https://doi.org/10.1177/2167702620929636
- Ho, R. C., Husain, S. F., & Ho, C. S. (2018). Cognitive dysfunction in patients with systemic lupus erythematosus: The challenge in diagnosis and management. *Rheumatology Practice and Research*, *3*, 2059902118792434. https://doi.org/10.1177/2059902118792434
- Kashay, A. Q., Cheung, J. Y., Vaknalli, R. N., Delaney, M. J., Navarro, M. B., Junaidi, C., Veenker, F., Neuwirth, M. E., Gabriel, C. J., DeNardo, L. A., & Wilke, S. A. (2023). Neural activity in the anterior cingulate cortex is required for effort-based decision making. In *bioRxiv* (p. 2022.03.22.485350). https://doi.org/10.1101/2022.03.22.485350
- Kósa, F., Kunovszki, P., Gimesi-Országh, J., Kedves, M., Szabó, M., Karyekar, C. S., & Nagy, G. (2022). High risk of depression, anxiety, and an unfavorable complex comorbidity profile is associated with SLE: a nationwide patient-level study. *Arthritis Research & Therapy*, 24(1), 116. https://doi.org/10.1186/s13075-022-02799-6
- Lempert, K. M., Porcelli, A. J., Delgado, M. R., & Tricomi, E. (2012). Individual differences in delay

- discounting under acute stress: the role of trait perceived stress. *Frontiers in Psychology*, *3*, 251. https://doi.org/10.3389/fpsyg.2012.00251
- Levitt, E. E., Oshri, A., Amlung, M., Ray, L. A., Sanchez-Roige, S., Palmer, A. A., & MacKillop, J. (2023). Evaluation of delay discounting as a transdiagnostic research domain criteria indicator in 1388 general community adults. *Psychological Medicine*, *53*(4), 1649–1657. https://doi.org/10.1017/S0033291721005110
- Liu, Y., Tu, Z., Zhang, X., Du, K., Xie, Z., & Lin, Z. (2022). Pathogenesis and treatment of neuropsychiatric systemic lupus erythematosus: A review. *Frontiers in Cell and Developmental Biology*, *10*, 998328. https://doi.org/10.3389/fcell.2022.998328
- Macedo, I., Fernandes, C., Barbosa, F., & Marques-Teixeira, J. (2022). Delay discounting in aging:

 The influence of cognitive and psychological variables. *Behavioral Neuroscience*, *136*(5),

 392–403. https://doi.org/10.1037/bne0000518
- Mejía-Vilet, J. M., & Ayoub, I. (2021). The Use of Glucocorticoids in Lupus Nephritis: New Pathways for an Old Drug. *Frontiers of Medicine*, *8*, 622225. https://doi.org/10.3389/fmed.2021.622225
- Miller, F. "forrest," Kaya, Y. B., Dimas, G. L., Konrad, R., Maass, K. L., & Trapp, A. C. (2022). On the Optimization of Benefit to Cost Ratios for Public Sector Decision Making. In *arXiv [math.OC]*. arXiv. https://doi.org/10.48550/ARXIV.2212.04534
- Montero-López, E., Santos-Ruiz, A., Navarrete-Navarrete, N., Ortego-Centeno, N., Pérez-García, M., & Peralta-Ramírez, M. I. (2016). The effects of corticosteroids on cognitive flexibility and decision-making in women with lupus. *Lupus*, *25*(13), 1470–1478.
 https://doi.org/10.1177/0961203316642313
- Narupan, N., Seeherunwong, A., & Pumpuang, W. (2022). Prevalence and biopsychosocial factors associated with depressive symptoms among patients living with systemic lupus erythematosus in clinical settings in urban Thailand. *BMC Psychiatry*, 22(1), 103. https://doi.org/10.1186/s12888-022-03739-z
- Norman, L. J., Carlisi, C. O., Christakou, A., Chantiluke, K., Murphy, C., Simmons, A., Giampietro, V., Brammer, M., Mataix-Cols, D., & Rubia, K. (2017). Neural dysfunction during temporal discounting in paediatric Attention-Deficit/Hyperactivity Disorder and Obsessive-Compulsive Disorder. *Psychiatry Research. Neuroimaging*, 269, 97–105. https://doi.org/10.1016/j.pscychresns.2017.09.008

- Porta, S., Danza, A., Arias Saavedra, M., Carlomagno, A., Goizueta, M. C., Vivero, F., & Ruiz-Irastorza, G. (2020). Glucocorticoids in Systemic Lupus Erythematosus. Ten Questions and Some Issues. *Journal of Clinical Medicine Research*, 9(9). https://doi.org/10.3390/jcm9092709
- Qu, C., Hu, Y., Tang, Z., Derrington, E., & Dreher, J.-C. (2020). Neurocomputational mechanisms underlying immoral decisions benefiting self or others. *Social Cognitive and Affective Neuroscience*, *15*(2), 135–149. https://doi.org/10.1093/scan/nsaa029
- Sarwar, S., Mohamed, A. S., Rogers, S., Sarmast, S. T., Kataria, S., Mohamed, K. H., Khalid, M. Z., Saeeduddin, M. O., Shiza, S. T., Ahmad, S., Awais, A., & Singh, R. (2021). Neuropsychiatric Systemic Lupus Erythematosus: A 2021 Update on Diagnosis, Management, and Current Challenges. *Cureus*, 13(9), e17969. https://doi.org/10.7759/cureus.17969
- Schwartz, N., Stock, A. D., & Putterman, C. (2019). Neuropsychiatric lupus: new mechanistic insights and future treatment directions. *Nature Reviews. Rheumatology*, *15*(3), 137–152. https://doi.org/10.1038/s41584-018-0156-8
- Sedlinská, T., Brückner, L., Hübner, M., Rentsch, C., Falke, D., Mühle, C., Suc, J., Weinland, C., Kornhuber, J., Lenz, B., & Dayan, P. (2022). 40 Temporal discounting and male depression. *Journal of Neurology, Neurosurgery, and Psychiatry*, 93(12), e3. https://doi.org/10.1136/jnnp-2022-BNPA.40
- Seet, D., Allameen, N. A., Tay, S. H., Cho, J., & Mak, A. (2021). Cognitive Dysfunction in Systemic Lupus Erythematosus: Immunopathology, Clinical Manifestations, Neuroimaging and Management. *Rheumatology and Therapy*, 8(2), 651–679. https://doi.org/10.1007/s40744-021-00312-0
- Seldin, K., Lengua, L. J., & King, K. M. (2023). The relation between stress and impulsivity during the first year of college. *Journal of Personality*, *91*(5), 1189–1206. https://doi.org/10.1111/jopy.12792
- Singh, R., Ramasamy, M. A., Self, W. T., Simons, J. J. P., & Lin, P. K. F. (2013). Age-moderated effects of consequence and intent information on punishment: an intuitive prosecutorial interpretation. *The Journal of Genetic Psychology*, *174*(1), 1–24. https://doi.org/10.1080/00221325.2011.635913
- Soutschek, A., Jetter, A., & Tobler, P. N. (2023). Toward a Unifying Account of Dopamine's Role in Cost-Benefit Decision Making. *Biological Psychiatry Global Open Science*, *3*(2), 179–186. https://doi.org/10.1016/j.bpsgos.2022.02.010

- Steinglass, J. E., Lempert, K. M., Choo, T.-H., Kimeldorf, M. B., Wall, M., Walsh, B. T., Fyer, A. J., Schneier, F. R., & Simpson, H. B. (2017). Temporal discounting across three psychiatric disorders: Anorexia nervosa, obsessive compulsive disorder, and social anxiety disorder.

 *Depression and Anxiety, 34(5), 463–470. https://doi.org/10.1002/da.22586
- Szanto, K., Clark, L., Hallquist, M., Vanyukov, P., Crockett, M., & Dombrovski, A. Y. (2014). The cost of social punishment and high-lethality suicide attempts in the second half of life. *Psychology and Aging*, 29(1), 84–94. https://doi.org/10.1037/a0035339
- Xia, L., Gu, R., Zhang, D., & Luo, Y. (2017). Anxious Individuals Are Impulsive Decision-Makers in the Delay Discounting Task: An ERP Study. *Frontiers in Behavioral Neuroscience*, *11*, 5. https://doi.org/10.3389/fnbeh.2017.00005
- Zhang, M., Zhang, X., Qu, C., Wang, G., & Lu, X. (2022). The combination of social reward and punishment is conducive to the cooperation and heterogeneity of social relations. *Chaos*, 32(10), 103104. https://doi.org/10.1063/5.0102483
- Zhao, Q., & Hastie, T. (2019). CAUSAL INTERPRETATIONS OF BLACK-BOX MODELS. *Journal of Business & Economic Statistics: A Publication of the American Statistical Association*, 2019. https://doi.org/10.1080/07350015.2019.1624293