



UvA-DARE (Digital Academic Repository)

Essays in behavioural economics

Buser, T.

[Link to publication](#)

Citation for published version (APA):

Buser, T. (2012). Essays in behavioural economics Amsterdam: Thela Thesis

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <http://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

Bibliography

- Albrecht, J., Björklund, A., and Vroman, S. (2003). Is there a glass ceiling in Sweden? *Journal of Labor Economics*, 21:145–177.
- Altemus, M., Roca, C., Galliven, E., Romanos, C., and Deuster, P. (2001). Increased vasopressin and adrenocorticotropin responses to stress in the midluteal phase of the menstrual cycle. *The Journal of Clinical Endocrinology & Metabolism*, 86(6):2525–2530.
- Altonji, J. G. and Blank, R. (1999). Race and gender in the labor market. In Ashenfelter, O. C. and Card, D., editors, *Handbook of Labor Economics*, volume 3C, pages 3144–3259. Elsevier Science Publishers B.V., Amsterdam.
- Apicella, C. L., Dreber, A., Campbell, B., Gray, P. B., Hoffman, M., and Little, A. C. (2008). Testosterone and financial risk preferences. *Evolution and Human Behavior*, 29(6):384–390.
- Apicella, C. L., Dreber, A., Gray, P. B., Hoffman, M., Little, A. C., and Campbell, B. C. (2011). Androgens and competitiveness in men. *Journal of Neuroscience, Psychology, and Economics*, 4(1):54 – 62.
- Arulampalam, W., Booth, A. L., and Bryan, M. L. (2007). Is there a glass ceiling over europe? exploring the gender pay gap across the wage distribution. *Industrial and Labor Relations Review*, 60(2):163–186.
- Baron-Cohen, S. (2003). *The Essential Difference*. New York: Basic Books.
- Baron-Cohen, S., Lutchmaya, S., and Knickmeyer, R. (2004). *Prenatal testosterone in mind*. Cambridge: MIT Press.
- Barraza, J. A. and Zak, P. J. (2009). Empathy toward strangers triggers oxytocin release and subsequent generosity. *Annals of the New York Academy of Sciences*, 1167(1):182–189.
- Bartling, B., Fehr, E., Marechal, M. A., and Schunk, D. (2009). Egalitarianism and competitiveness. *American Economic Review: Papers & Proceedings*, 99(2):93–98.

- Baumgartner, T., Heinrichs, M., Vonlanthen, A., Fischbacher, U., and Fehr, E. (2008). Oxytocin shapes the neural circuitry of trust and trust adaptation in humans. *Neuron*, 58(4):639–650.
- Bellis, M. A. and Baker, R. R. (1990). Do females promote sperm competition? data for humans. *Animal Behaviour*, 40(5):997–999.
- Berg, J., Dickhaut, J., and McCabe, K. (1995). Trust, reciprocity, and social history. *Games and Economic Behavior*, 10(1):122–142.
- Bertrand, M. (2011). New perspectives on gender. In Ashenfelter, O. and Card, D., editors, *Handbooks in Economics Handbook of Labor Economics*, volume 4, part B of *Handbook of Labor Economics*, pages 1543 – 1590. Elsevier.
- Bertrand, M., Goldin, C., and Katz, L. F. (2011). Dynamics of the gender gap for young professionals in the financial and corporate sectors. *American Economic Journal: Applied Economics*, forthcoming.
- Bertrand, M. and Hallock, K. F. (2001). The gender gap in top corporate jobs. *Industrial and Labor Relations Review*, 55(1):3–21.
- Bloch, M., Schmidt, P. J., Su, T.-P., Tobin, M. B., and Rubinow, D. R. (1998). Pituitary-adrenal hormones and testosterone across the menstrual cycle in women with premenstrual syndrome and controls. *Biological Psychiatry*, 43(12):897 – 903.
- Bos, P. A., Terburg, D., and van Honk, J. (2010). Testosterone decreases trust in socially naive humans. *Proceedings of the National Academy of Sciences of the United States of America*, 107(22):9991–9995.
- Branas-Garza, P. and Rustichini, A. (2011). Organizing effects of testosterone and economic behavior: Not just risk taking. *PLoS ONE*, 6(12):e29842.
- Bröder, A. and Hohmann, N. (2003). Variations in risk taking behavior over the menstrual cycle: An improved replication. *Evolution and Human Behavior*, 24(6):391 – 398.
- Brown, C. and Corcoran, M. (1997). Sex-based differences in school content and the male-female wage gap. *Journal of Labor Economics*, 15(3):pp. 431–465.
- Brown, W. M., Hines, M., Fane, B. A., and Breedlove, S. M. (2002). Masculinized finger length patterns in human males and females with congenital adrenal hyperplasia. *Hormones and Behavior*, 42(4):380 – 386.

- Burnham, T. C. (2007). High-testosterone men reject low ultimatum game offers. *Proceedings of the Royal Society B: Biological Sciences*, 274(1623):2327–2330.
- Buser, T. (2010). Handedness predicts social preferences: Evidence connecting the lab to the field. Tinbergen Institute Discussion Papers 10-119/3, Tinbergen Institute.
- Buser, T. (2011). The impact of the menstrual cycle and hormonal contraceptives on competitiveness. *Journal of Economic Behavior & Organization*, forthcoming.
- Buser, T. (2012). Digit ratios, the menstrual cycle and social preferences. Unpublished.
- Cardenas, J. C., Dreber, A., von Essen, E., and Ranehill, E. (2011). Gender differences in competitiveness and risk taking: comparing children in colombia and sweden. *Journal of Economic Behavior and Organization*, forthcoming.
- Cesarini, D., Dawes, C. T., Fowler, J. H., Johannesson, M., Lichtenstein, P., and Wallace, B. (2008). Heritability of cooperative behavior in the trust game. *Proceedings of the National Academy of Sciences of the United States of America*, 105(10):3721–3726.
- Cesarini, D., Dawes, C. T., Johannesson, M., Lichtenstein, P., and Wallace, B. (2009). Genetic variation in preferences for giving and risk taking. *The Quarterly Journal of Economics*, 124(2):809–842.
- Chabbert Buffet, N., Djakoure, C., Christin Maitre, S., and Bouchard, P. (1998). Regulation of the human menstrual cycle. *Frontiers in Neuroendocrinology*, 19(3):151–186.
- Chavanne, T. J. and Gallup Jr, G. G. (1998). Variation in risk taking behavior among female college students as a function of the menstrual cycle. *Evolution and Human Behavior*, 19(1):27–32.
- Chen, Y., Katuscak, P., and Ozdenoren, E. (2009). Why can't a woman bid more like a man? *University of Michigan, Mimeo*.
- Coates, J. M., Gurnell, M., and Rustichini, A. (2009). Second-to-fourth digit ratio predicts success among high-frequency financial traders. *Proceedings of the National Academy of Sciences of the United States of America*, 106(2):623–628.
- Coren, S. (1993). *The left-hander syndrome, the causes and consequences of left-handedness*. New York: Vintage.
- Coren, S. (1995). Differences in divergent thinking as a function of handedness and sex. *American Journal of Psychology*, 108(3):311–325.

- Creinin, M. D., Keverline, S., and Meyn, L. A. (2004). How regular is regular? an analysis of menstrual cycle regularity. *Contraception*, 70(4):289 – 292.
- Croson, R. and Gneezy, U. (2009). Gender differences in preferences. *Journal of Economic Literature*, 47(2):448–74.
- Datta Gupta, N., Poulsen, A., and Villeval, M.-C. (2011). Gender matching and competitiveness: experimental evidence. *Economic Inquiry*, forthcoming.
- de Wit, H., Schmitt, L., Purdy, R., and Hauger, R. (2001). Effects of acute progesterone administration in healthy postmenopausal women and normally-cycling women. *Psychoneuroendocrinology*, 26(7):697–710.
- Denny, K. and O’Sullivan, V. (2007). The Economic Consequences of Being Left-Handed: Some Sinister Results. *Journal of Human Resources*, XLII(2):353–374.
- Dohmen, T., Falk, A., Huffman, D., Sunde, U., Schupp, J., and Wagner, G. G. (2011). Individual risk attitudes: Measurement, determinants and behavioral consequences. *Journal of the European Economic Association*, 9:522–550.
- Dreber, A. and Hoffman, M. (2007). Risk preferences are partly predetermined. Unpublished.
- Driessen, G. and Van Langen, A. (2010). De onderwijsachterstand van jongens. Technical report, Radboud Universiteit, Nijmegen, The Netherlands.
- Eckel, C. C. and Grossman, P. J. (2002). Sex differences and statistical stereotyping in attitudes toward financial risk. *Evolution and Human Behavior*, 23(4):281–95.
- Eisenegger, C., Naef, M., Snozzi, R., Heinrichs, M., and Fehr, E. (2010). Prejudice and truth about the effect of testosterone on human bargaining behaviour. *Nature*, 463(7279):356–359.
- Ellison, G. and Swanson, A. (2010). The gender gap in secondary school mathematics at high achievement levels: Evidence from the american mathematics competitions. *The Journal of Economic Perspectives*, 24(2):109–128.
- Ermisch, A., Barth, T., Ruhle, H., Skopkova, J., Hrbas, P., and Landgraf, R. (1985). On the blood-brain barrier to peptides: accumulation of labelled vasopressin, desglynh²-vasopressin and oxytocin by brain regions. *Endocrinological Experiments*, 19(1):29 – 37.
- Faurie, C., Vianey-Liaud, N., and Raymond, M. (2006). Do left-handed children have advantages regarding school performance and leadership skills? *Laterality*, 11(1):57–70.

- Fehr, E. (2009). On the economics and biology of trust. *Journal of the European Economic Association*, 7(2-3):235–266.
- Fischbacher, U. (2007). z-tree: Zurich toolbox for ready-made economic experiments. *Experimental Economics*, 10(2):171–178.
- Gächter, S., Herrmann, B., and Tönni, C. (2010). Culture and cooperation. *Philos Trans R Soc Lond B Biol Sci*, 365(1553):2651–2661.
- Garbarino, E., Slonim, R., and Sydnor, J. (2011). Digit ratios (2d:4d) as predictors of risky decision making for both sexes. *Journal of Risk and Uncertainty*, 42:1–26.
- Geschwind, N. and Galaburda, A. S. (1987). *Cerebral lateralisation*. Cambridge: MIT Press.
- Glaeser, E. L., Laibson, D. I., Scheinkman, J. A., and Soutter, C. L. (2000). Measuring trust. *The Quarterly Journal of Economics*, 115(3):811–846.
- Gneezy, U., Leonard, K. L., and List, J. A. (2009). Gender differences in competition: Evidence from a matrilineal and a patriarchal society. *Econometrica*, 77(5):1637–1664.
- Gneezy, U., Niederle, M., and Rustichini, A. (2003). Performance in competitive environments: Gender differences. *The Quarterly Journal of Economics*, 118(3):1049–1074.
- Goldberg, E., Harner, R., Lovell, M., Podell, K., and Riggio, S. (1994). Cognitive bias, functional cortical geometry, and the frontal lobes: Laterality, sex, and handedness. *Journal of Cognitive Neuroscience*, 6(3):276–296.
- Goldin, C., Katz, L. F., and Kuziemko, I. (2006). The homecoming of american college women: The reversal of the college gender gap. *The Journal of Economic Perspectives*, 20(4):133–156.
- Grimshaw, G., Bryden, M. P., and Finegan, J.-A. (1995). Relations between prenatal testosterone and cerebral lateralization in children. *Neuropsychology*, 9(1):68 – 79.
- Grogger, J. and Eide, E. (1995). Changes in college skills and the rise in the college wage premium. *The Journal of Human Resources*, 30(2):280–310.
- Güth, W., Schmittberger, R., and Schwarze, B. (1982). An experimental analysis of ultimatum bargaining. *Journal of Economic Behavior & Organization*, 3(4):367–388.
- Hampson, E. and Kimura, D. (1992). Sex differences and hormonal influences on cognitive function in humans. In Becker, J. B., Breedlove, S. M., and Crews, D., editors, *Behavioral Endocrinology*, pages 357–398. MIT Press.

- Hampson, E. and Young, E. A. (2008). Methodological issues in the study of hormone-behavior relations in humans: Understanding and monitoring the menstrual cycle. In Becker, J. B., Berkley, K. J., Geary, N., Hampson, E., Herman, J. P., and Young, E., editors, *Sex differences in the brain. From genes to behavior.*, pages 63–78. Oxford University Press.
- Henrich, J., Boyd, R., Bowles, S., Camerer, C., Fehr, E., Gintis, H., and McElreath, R. (2001). In search of homo economicus: Behavioral experiments in 15 small-scale societies. *American Economic Review*, 91(2):73–78.
- Herrmann, B., Töhni, C., and Gächter, S. (2008). Antisocial Punishment Across Societies. *Science*, 319(5868):1362–1367.
- Hines, M. (2009). Gonadal hormones and sexual differentiation of human brain and behavior. In Pfaff, I. D. W., Arnold, A. P., Etgen, A. M., Fahrbach, S. E., and Rubin, R. T., editors, *Hormones, Brain and Behavior*, pages 1869–1909. San Diego, CA: Academic Press.
- Hines, M. (2011). Gender development and the human brain. *Annual Review of Neuroscience*, 34(1):69–88.
- Hines, M., Chiu, L., McAdams, L. A., Bentler, P., and Lipcamon, J. (1992). Cognition and the corpus callosum: Verbal fluency, visuospatial ability, and language lateralization related to mid-sagittal surface areas of callosal subregions. *Behavioral Neuroscience*, 106(1):3 – 14.
- Hoffman, M. and Gneezy, U. (2010). Left handed women are more competitive than right handed men: On the biological basis of gender differences in competitiveness. *UC San Diego, Mimeo*.
- Holm, H. J. and Danielson, A. (2005). Tropic trust versus nordic trust: Experimental evidence from tanzania and sweden. *Economic Journal*, 115(503):505–532.
- Holt, C. A. and Laury, S. K. (2002). Risk aversion and incentive effects. *American Economic Review*, 92(5):1644–1655.
- Hönekopp, J., Bartholdt, L., Beier, L., and Liebert, A. (2007). Second to fourth digit length ratio (2d:4d) and adult sex hormone levels: New data and a meta-analytic review. *Psychoneuroendocrinology*, 32(4):313 – 321.
- Israel, S., Lerer, E., Shalev, I., Uzefovsky, F., Riebold, M., Laiba, E., Bachner-Melman, R., Maril, A., Bornstein, G., Knafo, A., and Ebstein, R. P. (2009). The oxytocin receptor (oxtr) contributes to prosocial fund allocations in the dictator game and the social value orientations task. *PLoS ONE*, 4:e5535.

- Johnston, D. W., Shah, M., and Shields, M. A. (2007). Handedness, Time Use and Early Childhood Development. Discussion Paper 4300, Institute for the Study of Labor (IZA).
- Jones, B., Little, A., Boothroyd, L., DeBruine, L., Feinberg, D., Law Smith, M., Cornwell, R., Moore, F., and Perrett, D. (2005). Commitment to relationships and preferences for femininity and apparent health in faces are strongest on days of the menstrual cycle when progesterone level is high. *Hormones and Behavior*, 48(3):283–290.
- Kastlunger, B., Dressler, S. G., Kirchler, E., Mittone, L., and Voracek, M. (2010). Sex differences in tax compliance: Differentiating between demographic sex, gender-role orientation, and prenatal masculinization (2d:4d). *Journal of Economic Psychology*, 31(4):542–552.
- Knafo, A., Israel, S., Darvasi, A., Bachner-Melman, R., Uzefovsky, F., Cohen, L., Feldman, E., Lerer, E., Laiba, E., Raz, Y., Nemanov, L., Gritsenko, I., Dina, C., Agam, G., Dean, B., Bornstein, G., and Ebstein, R. P. (2008). Individual differences in allocation of funds in the dictator game associated with length of the arginine vasopressin 1a receptor rs3 promoter region and correlation between rs3 length and hippocampal mRNA. *Genes, Brain and Behavior*, 7(3):266–275.
- Knecht, S., Deppe, M., Dräger, B., Bobe, L., Lohmann, H., Ringelstein, E.-B., and Henningsen, H. (2000). Language lateralization in healthy right-handers. *Brain*, 123(1):74–81.
- Knickmeyer, R., Baron-Cohen, S., Raggatt, P., and Taylor, K. (2005). Foetal testosterone, social relationships, and restricted interests in children. *The Journal of Child Psychology and Psychiatry*, 46(2):198 – 210.
- Kol, S. and Homburg, R. (2008). Change, change, change: hormonal actions depend on changes in blood levels. *Human Reproduction*, 23(5):1004–1006.
- Kosfeld, M., Heinrichs, M., Zak, P. J., Fischbacher, U., and Fehr, E. (2005). Oxytocin increases trust in humans. *Nature*, 435(2):673–676.
- Ledyard, J. (1995). Public goods: A survey of experimental research. In Kagel, J. H. and Roth, A. E., editors, *The Handbook of Experimental Economics*. Princeton, NJ: Princeton University Press.
- LeFevre, J.-A., Kulak, A. G., and Heymans, S. L. (1992). Factors influencing the selection of university majors varying in mathematical content. *Canadian Journal of Behavioural Science*, 24(3):276–289.
- Levitt, S. D. and List, J. A. (2007). What do laboratory experiments measuring social preferences reveal about the real world? *Journal of Economic Perspectives*, 21(2):153–174.

- Lonnqvist, J.-E., Verkasalo, M., Walkowitz, G., and Wichardt, P. C. (2010). Measuring individual risk attitudes in the lab: Task or ask? an empirical comparison. Unpublished.
- Lust, J., Geuze, R., de Beek, C. V., Cohen-Kettenis, P., Groothuis, A., and Bouma, A. (2010). Sex specific effect of prenatal testosterone on language lateralization in children. *Neuropsychologia*, 48(2):536 – 540.
- Lutchmaya, S. and Baron-Cohen, S. (2002). Human sex differences in social and non-social looking preferences, at 12 months of age. *Infant Behavior and Development*, 25(3):319 – 325.
- Lutchmaya, S., Baron-Cohen, S., Raggatt, P., Knickmeyer, R., and Manning, J. T. (2004). 2nd to 4th digit ratios, fetal testosterone and estradiol. *Early Human Development*, 77(1-2):23 – 28.
- Manning, J. T. (2002). *Digit ratio. A pioneer to fertility, behavior and health*. Rutgers University Press.
- Manning, J. T., Barley, L., Walton, J., Lewis-Jones, D., Trivers, R., Singh, D., Thornhill, R., Rohde, P., Bereczkei, T., Henzi, P., Soler, M., and Szwed, A. (2000). The 2nd:4th digit ratio, sexual dimorphism, population differences, and reproductive success: evidence for sexually antagonistic genes? *Evolution and Human Behavior*, 21(3):163 – 183.
- Manning, J. T., Baron-Cohen, S., Wheelwright, S., and Sanders, S. (2001). The 2nd to 4th digit ratio and autism. *Developmental Medicine & Child Neurology*, 43(3):160–164.
- Manning, J. T., Bundred, P. E., Newton, D. J., and Flanagan, B. F. (2003). The second to fourth digit ratio and variation in the androgen receptor gene. *Evolution and Human Behavior*, 24(6):399 – 405.
- Manning, J. T. and Peters, M. (2009). Digit ratio (2d:4d) and hand preference for writing in the bbc internet study. *Laterality*, 14(5):528–540.
- Manning, J. T., Scutt, D., Wilson, J., and Lewis-Jones, D. I. (1998). The ratio of 2nd to 4th digit length: a predictor of sperm numbers and concentrations of testosterone, luteinizing hormone and oestrogen. *Human Reproduction*, 13(11):3000–3004.
- Manning, J. T. and Taylor, R. P. (2001). Second to fourth digit ratio and male ability in sport: implications for sexual selection in humans. *Evolution and Human Behavior*, 22(1):61 – 69.
- Mansour, D. (2006). Use of the new progestogens in contraception and gynaecology. *The Obstetrician & Gynaecologist*, (8):229–234.

- McManus, C. (2002). *Right hand, left hand. The origins of asymmetry in brains, bodies, atoms and cultures*. London: Weidenfeld & Nicolson.
- Miller, G., Tybur, J. M., and Jordan, B. D. (2007). Ovulatory cycle effects on tip earnings by lap dancers: economic evidence for human estrus? *Evolution and Human Behavior*, 28(6):375 – 381.
- Millet, K. (2011). An interactionist perspective on the relation between 2d:4d and behavior: An overview of (moderated) relationships between 2d:4d and economic decision making. *Personality and Individual Differences*, 51(4):397 – 401.
- Millet, K. and Dewitte, S. (2006). Second to fourth digit ratio and cooperative behavior. *Biological Psychology*, 71(1):111 – 115.
- Millet, K. and Dewitte, S. (2009). The presence of aggression cues inverts the relation between digit ratio (2d:4d) and prosocial behaviour in a dictator game. *British Journal of Psychology*, 100:151 – 162.
- Mobius, M., Niederle, M., Niehaus, P., and Rosenblat, T. (2011). Managing self-confidence: Theory and experimental evidence. Unpublished.
- Morhenn, V. B., Park, J. W., Piper, E., and Zak, P. J. (2008). Monetary sacrifice among strangers is mediated by endogenous oxytocin release after physical contact. *Evolution and Human Behavior*, 29(6):375 – 383.
- Murnane, R. J., Willett, J. B., Duhaldeborde, Y., and Tyler, J. H. (2000). How important are the cognitive skills of teenagers in predicting subsequent earnings? *Journal of Policy Analysis and Management*, 19(4):547–568.
- Niederle, M. and Vesterlund, L. (2007). Do women shy away from competition? do men compete too much? *The Quarterly Journal of Economics*, 122(3):1067–1101.
- Niederle, M. and Vesterlund, L. (2011). Gender and competition. *Annual Review of Economics*, 3(1):601–630.
- Oosterbeek, H., Sloof, R., and van de Kuilen, G. (2004). Cultural differences in ultimatum game experiments: Evidence from a meta-analysis. *Experimental Economics*, 7(2):171–188.
- Paglin, M. and Rufolo, A. M. (1990). Heterogeneous human capital, occupational choice, and male-female earnings differences. *Journal of Labor Economics*, 8(1):123–144.
- Pearson, M. and Schipper, B. C. (2011a). Menstrual cycle and competitive bidding. Unpublished.

- Pearson, M. and Schipper, B. C. (2011b). The visible hand: Finger ratio (2d:4d) and competitive bidding. *Experimental Economics*, forthcoming.
- Penton-Voak, I. S. and Perrett, D. I. (2000). Female preference for male faces changes cyclically: Further evidence. *Evolution and Human Behavior*, 21(1):39–48.
- Penton-Voak, I. S., Perrett, D. I., Castles, D. L., Kobayashi, T., Burr, D. M., Murray, L. K., and Minamisawa, R. (1999). Menstrual cycle alters face preference. *Nature*, (6738):741–742.
- Powell, M. and Ansic, D. (1997). Gender differences in risk behaviour in financial decision-making: An experimental analysis. *Journal of Economic Psychology*, 18(6):605–628.
- Putz, D. A., Gaulin, S. J., Sporter, R. J., and McBurney, D. H. (2004). Sex hormones and finger length: What does 2d:4d indicate? *Evolution and Human Behavior*, 25(3):182 – 199.
- Richardson, J. T. (1992). The menstrual cycle, cognition, and paramenstrual symptomatology. In Richardson, J. T., editor, *Cognition and the Menstrual Cycle*. Springer-Verlag.
- Rivera, R., Yacobson, I., and Grimes, D. (1999). The mechanism of action of hormonal contraceptives and intrauterine contraceptive devices. *American Journal of Obstetrics & Gynecology*, 181:1263–1269.
- Robinson, S. J. and Manning, J. T. (2000). The ratio of 2nd to 4th digit length and male homosexuality. *Evolution and Human Behavior*, 21(5):333–345.
- Roth, A. E. (1995). Bargaining experiments. In Kagel, J. H. and Roth, A. E., editors, *The Handbook of Experimental Economics*. Princeton, NJ: Princeton University Press.
- Ruebeck, C. S., Harrington, J. E., and Moffitt, R. (2007). Handedness and earnings. *Laterality*, 12(2):101–120.
- Salonia, A., E. Nappib, R., Pontilloc, M., Daverioc, R., Smeraldid, A., Brigantia, A., Fabbria, F., Zannia, G., Rigattia, P., and Montorsia, F. (2005). Menstrual cycle-related changes in plasma oxytocin are relevant to normal sexual function in healthy women. *Hormones and Behavior*, 47:164–169.
- Sanchez-Pages, S. and Turiegano, E. (2010). Testosterone, facial symmetry and cooperation in the prisoners' dilemma. *Physiology & Behavior*, 99(3):355 – 361.
- Sanders, B., Wilson, J. R., and Vandenberg, S. G. (1982). Handedness and spatial ability. *Cortex*, 18(1):79–90.

- Sapienza, P., Zingales, L., and Maestripieri, D. (2009). Gender differences in financial risk aversion and career choices are affected by testosterone. *Proceedings of the National Academy of Sciences of the United States of America*, 106(36):15268–15273.
- Schipper, B. C. (2011a). Sex hormones and choice under risk. Unpublished.
- Schipper, B. C. (2011b). Sex hormones and competitive bidding. Unpublished.
- Small, C. M., Manatunga, A. K., and Marcus, M. (2007). Validity of self-reported menstrual cycle length. *Annals of Epidemiology*, 17(3):163 – 170.
- Stern, K. and McClintock, M. K. (1998). Regulation of ovulation by human pheromones. *Nature*, 1392(6672):177 – 179.
- Sutter, M. and Rützler, D. (2010). Gender differences in competition emerge early in life. Discussion Paper 5015, Institute for the Study of Labor (IZA).
- Thornhill, R. and Gangestad, S. W. (1999). The scent of symmetry: A human sex pheromone that signals fitness? *Evolution and Human Behavior*, 20(3):175–201.
- van den Bergh, B. and Dewitte, S. (2006). Digit ratio (2D:4D) moderates the impact of sexual cues on men’s decisions in ultimatum games. *Proceedings of the Royal Society B: Biological Sciences*, 273(1597):2091–2095.
- Wallace, B., Cesarini, D., Lichtenstein, P., and Johannesson, M. (2007). Heritability of ultimatum game responder behavior. *Proceedings of the National Academy of Sciences of the United States of America*, 104(40):15631–15634.
- Weinberger, C. J. (1999). Mathematical college majors and the gender gap in wages. *Industrial Relations: A Journal of Economy and Society*, 38(3):407–413.
- Weinberger, C. J. (2001). Is teaching more girls more math the key to higher wages? In King, M. C., editor, *Squaring Up: Policy Strategies to Raise Women’s Incomes in the United States*, chapter 11. University of Michigan Press.
- Weinberger, C. J. (2005). Is the Science and Engineering Workforce Drawn from the Far Upper Tail of the Math Ability Distribution? Unpublished.
- Witelson, S. F. (1985). The brain connection: The corpus callosum is larger in left-handers. *Science*, 229(4714):665–668.
- Witelson, S. F. (1991). Neural sexual mosaicism: Sexual differentiation of the human temporoparietal region for functional asymmetry. *Psychoneuroendocrinology*, 16(1-3):131 – 153.

- Witelson, S. F. and Goldsmith, C. H. (1991). The relationship of hand preference to anatomy of the corpus callosum in men. *Brain Research*, 545(1-2):175 – 182.
- Witelson, S. F. and Nowakowski, R. S. (1991). Left out axons make men right: A hypothesis for the origin of handedness and functional asymmetry. *Neuropsychologia*, 29(4):327 – 333.
- Wozniak, D., Harbaugh, W. T., and Mayr, U. (2010). Choices About Competition: Differences by gender and hormonal fluctuations, and the role of relative performance feedback. Unpublished.
- Zak, P. J. (2011). The physiology of moral sentiments. *Journal of Economic Behavior & Organization*, 77(1):53 – 65.
- Zak, P. J., Kurzban, R., Ahmadi, S., Swerdloff, R. S., Park, J., Efremidze, L., Redwine, K., Morgan, K., and Matzner, W. (2009). Testosterone administration decreases generosity in the ultimatum game. *PLoS One*, 4(12).
- Zak, P. J., Stanton, A. A., and Ahmadi, S. (2007). Oxytocin increases generosity in humans. *PLoS One*, 2(11).
- Zethraeus, N., Kocoska-Maras, L., Ellingsen, T., von Schoultz, B., Linden Hirschberg, A., and Johannesson, M. (2009). A randomized trial of the effect of estrogen and testosterone on economic behavior. *Proceedings of the National Academy of Sciences of the United States of America*, 106(16):6535–6538.