

### **Labor 3: Human Capital and the Economics of Education-spring 2024**

Syllabus for 2024. This course will cover three areas: (i) human capital investments and intergenerational mobility, (ii) educational production, and (iii) markets for education and schooling. In each of these segments, theoretical perspectives and empirical work will be presented.

#### **Examination**

This course will be graded as pass or fail. To obtain a passing grade in this course, students must:

1. Write three referee reports on an academic paper; one for each part of the course.
2. Present one academic paper during class.
3. Present a research proposal during a workshop at the end of the course.
4. Attend a minimum of 9 lectures.

#### **Instructors**

Assistant Prof. Marie-Pascale Grimon, SOFI, SU

Assistant Prof. José Montalban Castilla, SOFI, SU

Prof. Jonas Vlachos, Department of Economics, SU

#### **Lectures**

##### **Part 1: Marie-Pascale Grimon (4 classes)**

Human capital, non-cognitive skills, and health

The timing of investments

Intergenerational mobility

##### **Part 2: José Montalbán Castilla (4 classes)**

Returns to education and field of study

Class size effects

Peer effects in education

Teacher quality and teacher-related policies

##### **Part 3: Jonas Vlachos (4 classes)**

School finance and accountability

The market for education

School choice mechanisms

School management and school policies

#### **Reading list**

Starred \* articles are required reading

Articles with RR can be chosen to write a referee report on.

Articles with SP can be chosen for your student presentation.

### **Books**

Cahuc, Pierre and André Zylberberg (2014), *Labor Economics* (2nd edition), MIT Press.

(Can be downloaded as an E-book from SU's library)

Neal, Derek (2018), *Information, Incentives, and Education Policy*, Harvard University Press

### **Class 1 – Human Capital Introduction**

\*A. Roy. (1951) "Some Thoughts on the Distribution of Earnings" *Oxford Ec Papers*, 235-246.

\*Andresen, M. E. (2018). "Exploring Marginal Treatment Effects: Flexible Estimation Using Stata." *The Stata Journal*, 18(1), 118-158.

A.M. Spence. (1973) "Job Market Signaling," *Quarterly Journal of Economics* 87 (Aug), 355-74.

J. Heckman and G. Sedlacek. (1985) "Heterogeneity, Aggregation, and Market Wage Functions: An Empirical Model of Self-selection in the Labor Market," *JPE* 93(6), 1077-1125

F. Cunha and J. Heckman. (2007). "The Technology of Skill Formation," *AER* 97 (May), 31-47.

### **Class 2 – Non-cognitive skills and health**

\*Currie, Janet. "Child health as human capital". *Health Economics*. 2020 Apr;29(4):452-463.

\*Alan, Sule, and Ipek Mumcu. (forthcoming) "Nurturing Childhood Curiosity to Enhance Learning: Evidence from a Randomized Pedagogical Intervention", *American Economic Review*.

(SP) Any paper in the *Journal of Human Resources* Special Issue on "Causes and Consequences of Child Mental Health" <https://jhr.uwpress.org/page/child-mental-health>

(SP) J. Heckman and T. Kautz. (2012) "Hard Evidence on Soft Skills," *Labour Economics*, 19(4): 451-64.

(RR) Ramin, Izadi and Joonas Tuhkuri. (2023) "Psychological Traits and Adaptation in the Labor Market". [Working paper](#)

Edin, Per-Anders, Peter Fredriksson, Martin Nybom, and Björn Öckert. 2022. "The Rising Return to Noncognitive Skill." *American Economic Journal: Applied Economics*, 14 (2): 78-100.

Grossman, M. (2000). The Human Capital Model. *Handbook of Health Economics*, 1, 347-408.

Melvin Stephens, Melvin and Desmond Toohey, "The Impact of Health on Labor Market Outcomes: Evidence from a Large-Scale Health Experiment," *AEJ Applied*, July 2022.

### **Class 3 – Timing of Investments and the Importance of Early-Life**

\*Almond, Douglas, and Janet Currie. "Killing Me Softly: The Fetal Origins Hypothesis." *The Journal of Economic Perspectives* 25, no. 3 (2011): 153-72.

(SP) Raj Chetty, Nathaniel Hendren, The Impacts of Neighborhoods on Intergenerational Mobility I: Childhood Exposure Effects, *The Quarterly Journal of Economics*, Volume 133, Issue 3, August 2018, Pages 1107–1162.

(SP) Chetty, Raj, Nathaniel Hendren, Frina Lin, Jeremy Majerovitz, and Benjamin Scuderi. 2016. "Childhood Environment and Gender Gaps in Adulthood." *American Economic Review*, 106 (5): 282-88.

(RR) Carneiro, Pedro, Kjell Salvanes, Barton Willage and Alexander Willén (2023) "The Timing of Parental Job Displacement, Child Development and Family Adjustment". [Working paper](#).

Hendren, Nathaniel, and Ben Sprung-Keyser. 2020. "A Unified Welfare Analysis of Government Policies." *Quarterly Journal of Economics* 135 (3): 1209-1318.

List, John A., Ragan Petrie, and Anya Samek. 2023. "How Experiments with Children Inform Economics." *Journal of Economic Literature*, 61 (2): 504-64.

Bharadwaj, Prashant, Katrina Loken, and Christopher Nielson. (2013) "Early Life Health Interventions and Academic Achievement," *American Economic Review*, 103 #5, 1862-1891.

Gertler, P., Heckman, J., Pinto, R., Zanolini, A., Vermeersch, C., Walker, S., ... Grantham-McGregor, S. (2014). "Labor market returns to early childhood stimulation: A 20-year Follow-up to an experimental intervention in Jamaica." *Science*, 344(6187), 998–1001.

Baird, Sarah, Joan Hamory Hicks, Michael Kremer, Edward Miguel, 2016. "Worms at Work: Long-run Impacts of a Child Health Investment," *The Quarterly Journal of Economics*, vol 131(4), pages 1637-1680.

Akresh, Richard, Sonia Bhalotra, Marinella Leone and Una Osili, "First- and Second-Generation Impacts of the Biafran War", *Journal of Human Resources*, March 2023, 58 (2) 488-531.

#### **Class 4 – Intergenerational mobility**

\*Nybom, Martin and Jan Stuhler (Forthcoming) "Interpreting Trends in Intergenerational Mobility". *Journal of Political Economy*

(SP) Collado, M Dolores, Ignacio Ortuño-Ortín, and Jan Stuhler (2023). "Estimating Intergenerational and Assortative Processes in Extended Family Data", *The Review of Economic Studies*, Volume 90, Issue 3, May 2023, Pages 1195–1227

(RR) Jacome, Kuziemko & Naidu (2023) "Mobility for All: Representative Intergenerational Mobility Estimates over the 20th Century", [working paper](#).

(RR) Engzell, Per and Nathan Wilmers (2023) "Firms and the Intergenerational Transmission of Labor Market Advantage" <https://osf.io/preprints/socarxiv/mv3e9>

Persson, Petra, and Maya Rossin-Slater. 2018. "Family Ruptures, Stress, and the Mental Health of the Next Generation." *American Economic Review*, 108 (4-5): 1214-52.

Adermon, Adrian, Mikael Lindahl, and Mårten Palme. 2021. "Dynastic Human Capital, Inequality, and Intergenerational Mobility." *American Economic Review*, 111 (5): 1523-48.

Abramitzky, Ran, Leah Boustan, Elisa Jacome, and Santiago Perez. 2021. "Intergenerational Mobility of Immigrants in the United States over Two Centuries." *American Economic Review*, 111 (2): 580-608.

Attanasio, Orazio, Áureo de Paula and Alessandro Toppeta. (2023) "Intergenerational Mobility in Socio-emotional Skills". Working paper.

## Lecture 5: Returns to education and to field of study

\*Cahuc, Pierre and André Zylberberg (2014) "Education and Human Capital," Chapter 4 in *Labor Economics*, MIT Press. (Can be downloaded as an E-book from SU's library)

\*Card, David (1999) "The causal effects of education on earnings," Chapter 30 in Ashenfelter, O. and Card, D. (eds.), *Handbook of Labor Economics* vol. 3A, Amsterdam: Elsevier Science/North-Holland.

\*Altonji, J.G., P. Arcidiacono, and A Maurel (2016) "The analysis of field choice in college and graduate school: Determinants and wage effects," in *Handbook of the Economics of Education*, Elsevier, vol. 5, 305-396.

**(RR/SP)** Meghir, Costas and Mårten Palme (2005) "Educational Reform, Ability and Parental Background," *American Economic Review* 95(1), 414-424.

**(RR/SP)** Kirkeboen, Lars J., Edwin Leuven and Magne Mogstad (2016) "Field of Study, Earnings, and Self-Selection," *The Quarterly Journal of Economics* 131(3), 1057–1111.

**(RR/SP)** Dahl, Gordon, Dan-Olof Rooth and Anders Stenberg (2020) "Long-Run Returns to Field of Study in Secondary School," *American Economic Journal: Applied Economics* 15(1) 351-382

## Lecture 6: Class size effects

\* Angrist, J.D. and Pischke, J., 1999. Using Maimonides' rule to estimate the effect of class size on scholastic achievement. *The Quarterly Journal of Economics*, 114(2), pp.533-575.

Hoxby, C. M. (2000). The effects of class size on student achievement: New evidence from population variation. *The Quarterly Journal of Economics*, 115(4), 1239-1285.

Raj Chetty & John N. Friedman & Nathaniel Hilger & Emmanuel Saez & Diane Whitmore Schanzenbach & Danny Yagan, 2011. "How Does Your Kindergarten Classroom Affect Your Earnings? Evidence from Project Star," *The Quarterly Journal of Economics*, Oxford University Press, vol. 126(4), pages 1593-1660

\*Fredriksson, P., Öckert, B. and Oosterbeek, H., 2013. Long-term effects of class size. *The Quarterly Journal of Economics*, 128(1), pp.249-285.

\*Leuven, E., & Løkken, S. A. (2020). Long-Term Impacts of Class Size in Compulsory School. Forthcoming, *Journal of Human Resources* 55 (1). (2020). 309-348.

**(RR)** Bach, M., & Sievert, S. (2019). Birth Cohort Size Variation and the Estimation of Class Size Effects.

**(RR)** Bach, M (2019). Strategic Grade Retention

**(SP)** Peter Fredriksson & Björn Öckert & Hessel Oosterbeek, 2016. "Parental Responses to Public Investments in Children: Evidence from a Maximum Class Size Rule," *Journal of Human Resources*, vol. 51(4), pages 832-868.

## Lecture 7: Peer effects in education

\*Manski, C. F. (1993). Identification of endogenous social effects: The reflection problem. *The Review of Economic Studies*, 60(3), 531-542.

Carrell, S.E., Fullerton, R.L. and West, J.E., 2009. Does your cohort matter? Measuring peer effects in college achievement. *Journal of Labor Economics*, 27(3), pp.439-464.

\*Duflo, E., Dupas, P., & Kremer, M. (2011). Peer effects, teacher incentives, and the impact of tracking: Evidence from a randomized evaluation in Kenya. *American Economic Review*, 101(5), 1739-74.

Carrell, S. E., Sacerdote, B. I., & West, J. E. (2013). From natural variation to optimal policy? The importance of endogenous peer group formation. *Econometrica*, 81(3), 855-882.

\*Booij, Adam S. Edwin Leuven, Hessel Oosterbeek; Ability Peer Effects in University: Evidence from a Randomized Experiment, *The Review of Economic Studies*, Volume 84, Issue 2, 1 April 2017, Pages 547–578

**(RR)** Denning, J. T., Murphy, R., & Weinhardt, F. (2020). Class rank and long-run outcomes. *National Bureau of Economic Research* (No. w27468).

**(RR)** De Gendre, A., & Salamanca, N. (2020). On the Mechanisms of Ability Peer Effects.

**(RR)** Isphording I., & Zölitz, U. (2019). The value of a peer.

**(SP)** Carrell, S.E., and M.L. Hoekstra. 2010. "Externalities in the Classroom: How Children Exposed to Domestic Violence Affect Everyone's Kids." *American Economic Journal: Applied Economics* 2:211–228.

**(SP)** Murphy, R., & Weinhardt, F. (2018). Top of the class: The importance of ordinal rank. *The Review of Economic Studies* (accepted)

## **Lecture 8: Teacher quality and teacher-related policies**

Hanushek, E. A., & Rivkin, S. G. (2006). Teacher quality. *Handbook of the Economics of Education*, 2, 1051-1078.

\*Jackson, C. K., Rockoff, J. E., & Staiger, D. O. (2014). Teacher effects and teacher-related policies. *Annual Review of Economics*, 6(1), 801-825.

Kane, T. and D. Staiger (2008), Estimating Teacher Impacts on Student Achievement: An Experimental Evaluation, *NBER Working Paper* 14607.

\*Rothstein, J. (2010). Teacher quality in educational production: Tracking, decay, and student achievement. *The Quarterly Journal of Economics*, 125(1), 175-214.

\*Chetty, R., Friedman, J.N. and Rockoff, J.E., 2014. Measuring the impacts of teachers II: Teacher value-added and student outcomes in adulthood. *The American Economic Review*, 104(9), pp.2633-2679.

Joshua D. Angrist, Peter D. Hull, Parag A. Pathak, Christopher R. Walters; Leveraging Lotteries for School Value-Added: Testing and Estimation, *The Quarterly Journal of Economics*, Volume 132, Issue 2, 1 May 2017, Pages 871–919

C. Kirabo Jackson (2018) What Do Test Scores Miss? The Importance of Teacher Effects on Non-Test Score Outcomes, *Journal of Political Economy* 126:5, 2072-2107

Ost, B. (2014). How do teachers improve? The relative importance of specific and general human capital. *American Economic Journal: Applied Economics*, 6(2), 127-51.

Angrist, J. D., & Lavy, V. (2001). Does teacher training affect pupil learning? Evidence from matched comparisons in Jerusalem public schools. *Journal of Labor Economics*, 19(2), 343-369.

Lavy, V. (2009). Performance pay and teachers' effort, productivity, and grading ethics. *American Economic Review*, 99(5), 1979-2011.

**(RR)** Bitler, M. P., Corcoran, S. P., Domina, T., & Penner, E. K. (2019). Teacher Effects on Student Achievement and Height: A Cautionary Tale. *NBER Working Paper No. 26480*

**(RR)** Barrios Fernández, A., & Riudavets, M. (2021). Teacher Value-Added and Gender Gaps in Educational Outcomes. *Available at SSRN 3856935*

**(SP)** Goodman, S. F., & Turner, L. J. (2013). The design of teacher incentive pay and educational outcomes: Evidence from the New York City bonus program. *Journal of Labor Economics*, 31(2), 409-420.

### **Lecture 9: Finance and accountability (from 2023 to be updated)**

\* Neal (2018), Chapters 1.1-1.4, 1.9, Chapter 2 (not 2.12 but do read 2.13).

\* Jackson, K., R. Johnson, and C. Persico (2016). The effects of school spending on educational and economic outcomes: Evidence from school finance reforms. *Quarterly Journal of Economics*, 157-218. doi:10.1093/qje/qjv036.

\* Johnson, R.C. and K. Jackson (2017), "Reducing inequality through dynamic complementarity: Evidence from Head Start and public school spending", NBER WP 23489. Updated version: [https://works.bepress.com/c\\_kirabo\\_jackson/32/](https://works.bepress.com/c_kirabo_jackson/32/).

\* Deming, D., S. Cohodes, J. Jennings, and C. Jencks (2016). School accountability, postsecondary attainment, and earnings. *Review of Economics and Statistics*, 98:5, 848-862.

(SP) Andrabi, T., J. Das and I. Khwaja (2017). Report cards: The impact of providing school and child test scores on educational markets. *American Economic Review*, 107:6, 1535-1563.

(RR) Dizon-Ross (2018), "How Does School Accountability Affect Teachers? Evidence from New York City", NBER WP 24658. <https://www.nber.org/papers/w24658>.

Gibbons, S., S. McNally, and M. Viarengo (2017). Does additional spending help urban schools? An evaluation using boundary discontinuities. *Journal of the European Economic Association* (forthcoming), DOI: 10.1093/jeea/jvx038

(SP) Gilrane, M., H. Macartney, and R. McMillan (2018). Education reform in general equilibrium. NBER WP 24191.

Heissel et al (2018), "Testing, Stress, and Performance: How Students Respond Physiologically to High-Stakes Testing", NBER WP 25305. <https://www.nber.org/papers/w25305>.

Heissel, J. and H. Ladd (2017). School turnaround in North Carolina: A regression discontinuity approach. *Economics of Education Review* (forthcoming):  
<https://doi.org/10.1016/j.econedurev.2017.08.001>

Jackson, K (2018), "What do test scores miss? The importance of teacher effects on non-test score outcomes", *Journal of Political Economy*, 126:5, 2072-2107.

Lafortune, J., J. Rothstein, and D. Whitmore Schanzenbach (2016). School finance reform and the distribution of student achievement. *American Economic Journal: Applied Economics* (forthcoming). Latest version: [https://eml.berkeley.edu/~jrothst/publications/LRS\\_20170213-complete.pdf](https://eml.berkeley.edu/~jrothst/publications/LRS_20170213-complete.pdf).

Macartney, H. (2016), "The dynamic effects of educational accountability", *Journal of Labor Economics*, 34(1): 1-28.

(RR) Macartney et al (2018), "Teacher Performance and Accountability Incentives" NBER WP 24747, <https://www.nber.org/papers/w24747>

Reback, R., J. Rockoff and H. Schwartz (2014). Under Pressure: Job Security, Resource Allocation, and Productivity in Schools under No Child Left Behind. *American Economic Journal: Economic Policy*, 6:3, 207-241

(SP) Rothstein, J. (2015). Teacher quality when teacher supply matters. *American Economic Review*, 105:1, 100-130.

SURVEY: Figlio, D. and S Loeb (2011). School accountability. Chapter 8 in *Handbook of the Economics of Education*, volume 3.

SURVEY: Deming, D. and Figlio, D (2016). Accountability in US Education. *Journal of Economic Perspectives*, 30:6, 33-56.

SURVEY: Jackson, K. (2018). Does school spending matter? The new literature on and old question. Working paper: [https://works.bepress.com/c\\_kirabo\\_jackson/38/](https://works.bepress.com/c_kirabo_jackson/38/).

CLASSIC: Jacob, B. and S. Levitt (2003). Rotten Apples: An Investigation of the Prevalence and Predictors of Teacher Cheating. *Quarterly Journal of Economics*, 118(3): 843-877.

### **Lecture 10: The market for education (from 2023 to be updated)**

\* Hoxby, C. (2003), "School Choice and School Productivity. Could School Choice Be a Tide that Lifts All Boats?" in *The Economics of School Choice* NBER. <http://www.nber.org/chapters/c10091>.

\* MacLeod, W.B. och M. Urquiola (2015). Reputation and School Competition, *American Economic Review*, 105(11), 3471-3488.

\* Neal chapter 5 (Chapter 4 on charter schools can be read but with less intensity. Chapter 4.5 is useful to understand lottery approaches).

\* Rothstein, Jesse (2006). Principals or Good Peers? Parental Valuation of School Characteristics, Tiebout Equilibrium, and the Incentive Effects of Competition among Jurisdictions, *American Economic Review*, 96:4, 1333-1350.

\* Corcoran et al (2018), "Leveling the Playing Field for High School Choice: Results from a Field Experiment of Informational Interventions", NBER WP 24471.

Abdulkadiroglu, A., J. Angrist, and P. Pathak (2014), "The Elite Illusion", *Econometrica*, 82(1), 137-196.

Abdulkadiroglu A, Pathak P.A., Walters C (2018). Free to Choose: Can School Choice Reduce Student Achievement? *American Economic Journal: Applied Economics*, 10:1, 175-206.

(RR) Abdulkadiroglu A, Pathak P.A., J. Schellenberg, C. Walters (2017). "Do parents value school effectiveness?" NBER WP 23192.

Abdulkadiroglu, A., J. Angrist, and P. Pathak (2014). The Elite Illusion. *Econometrica*, 82(1), 137-196.

(SP) Barseghyan, L., D. Clark, and S. Coate (2017). "Public School Choice: An Economic Analysis", Revised version of NBER WP 20701. Find it here:  
[https://barseghyan.economics.cornell.edu/docs/BCC\\_2017.pdf](https://barseghyan.economics.cornell.edu/docs/BCC_2017.pdf)

(RR) Nathalie Bau (2017). School competition and Product Differentiation". WP University of Toronto. Find it here: <https://sites.google.com/site/nataliebau/>.

(RR) Bergman et al (2018), "Education for All? A Nationwide Audit Study of Schools of Choice", NBER WP 25396, <https://www.nber.org/papers/w25396>.

Beuermann, Diether et al (2018), "What is a good school, and can parents tell? Evidence on the multidimensionality of school output", NBER Working paper 25342.  
<https://www.nber.org/papers/w25342>.

Billings, S., D. Deming, and J. Rockoff (2014). School Segregation, Educational Attainment, and Crime. Evidence from the End of Busing in Charlotte-Mecklenburg. *Quarterly Journal of Economics*, 435-476.

Böhlmark, A. and M. Lindahl (2015). Independent Schools and Long-Run Educational Outcomes: Evidence from Sweden's Large Scale Voucher Reform. *Economica*, 82, 508-551.

Böhlmark, A., M. Lindahl, and H. Holmlund (2016). School Choice and Segregation, *Journal of Population Economics*, 29, 1155-1190.

Burgess, S., E. Greaves, A. Vignoles, and D. Wilson (2015), What Parents Want. School Preferences and School Choice. *Economic Journal*, 125, 1262-1289.

Deming, D., J. Hastings, T. Kane, and D. Staiger (2014), "School Choice, School Quality, and Postsecondary Attainment", *American Economic Review*, 104:3, 991-1013.

Eyles, A., S. Machin, and S. McNally (2017). Unexpected school reform: Academisation of primary schools in England. *Journal of Public Economics*, 155, 108-121.

Figlio, David N. and Maurice E. Lucas (2004). What's in a Grade? School Report Cards and the Housing Market. *The American Economic Review*, 94(3), 591-604.

Jacob, B., B. McCall, and K. Strange (2018), "College as a country club: Do colleges cater to student's preferences for consumption?", *Journal of Labor Economics*, 36:2, 309-348.

Kerr, S., T. Pekkarinen, M. Sarvimäki and R. Uusitalo (2015), "Post-Secondary Education and Information on Labor Market Prospects: A Randomized Field Experiment", IZA DP 9372.

Lavy, V. (2010), "Effects of Free Choice Among Public Schools", *Review of Economic Studies*, 77, 1164-1191.



- Mizala, A. and M. Urquiola (2013). School markets: The impact of information approximating schools' effectiveness. *Journal of Development Economics*, 103, 313-335.
- McMillan, R. (2005), "Competition, Incentives, and Public School Productivity", *Journal of Public Economics*, 89, 1133-1154.
- Ruijs and Oosterbeek (2019), "School Choice in Amsterdam: Which Schools are Chosen When School Choice is Free?", *Education Finance and Policy*, 14:1, 1-30.
- Vlachos, J. and B. Tyrefors-Hinnerich (2017), "The Impact of Voucher Schools on Upper-Secondary Student Achievement. Swedish Evidence using External and Internal Test Evaluations", *Labour Economics*, 47, 1-14.
- Söderström, M. and R. Uusitalo (2010), "School Choice and Segregation. Evidence from an Admissions Reform", *Scandinavian Journal of Economics*, 112(1), 55-76.
- Wondrakschek, V, K. Edmark, K., and M. Frölich (2013). The Short and Long Term Effects of School Choice on Student Outcomes: Evidence from a School Choice Reform in Sweden. *Annals of Economics and Statistics*, 111–112, 71–102, 2013.
- SURVEY: Black, S. and S. Machin (2011). Housing Valuations of School Performance. Chapter 10 in *Handbook of the Economics of Education*, vol 3.
- SURVEY: Charbier, J., S. Cohodes, and P. Oreopoulos (2016). What can we learn from charter school lotteries? *Journal of Economic Perspectives*, 30:3, 57-84.
- SURVEY: Epple, D., R. Romano, and R. Zimmer (2016). Charter schools: A survey of research on their characteristics and effectiveness. Chapter 3 in *Handbook of the Economics of Education*, volume 5.
- SURVEY: Epple, D., R. Romano, and M. Urquiola (2017). School vouchers: A survey of the economics literature. *Journal of Economic Literature*, 55:2, 441-492.
- SURVEY: Jacob, B. and J. Rothstein (2016). The measurement student ability in modern assessment systems. *Journal of Economic Perspectives*, 30:3, 85-108.
- SURVEY: Urquiola, M. (2016). Competition among schools: Traditional public and private schools. Chapter 4 in *Handbook of the Economics of Education*, volume 5.
- SURVEY: *Handbook of Research on School Choice* (2019), Edited by Mark Berends, Ann Primus, Matthew G. Springer. Routledge. <https://www.taylorfrancis.com/books/9781351210447>
- CLASSIC: Cullen, J, B. Jacob, and S. Levitt (2006), "The Effect of School Choice on Participants: Evidence from Randomized Lotteries", *Econometrica*, 74(5), 1193-1230.
- CLASSIC: Hastings, J. S., & Weinstein, J. M. (2008). Information, school choice, and academic achievement: Evidence from two experiments. *The Quarterly Journal of Economics*, 123, 1373–1414.
- Lecture 11: School choice mechanisms (from 2023 to be updated)**
- \* Abdulkadiroglu A, Pathak P.A., Roth A.E., Sönmez T (2006). The Boston Public School Match. *American Economic Review* 95, No. 2, pp. 368-371. MOTE! The NBER Working paper (No. 11965) version is more detailed and more informative.

\* Abdulkadiroglu A, Pathak P.A., Roth A.E., Sönmez T (2009). Strategy-proofness versus Efficiency in Matching with Indifferences: Redesigning the New York City High School Match. *American Economic Review* 99, No. 5, pp. 1954–1978.

\* Abdulkadiroglu A, Sönmez T (2003). School Choice: A Mechanism Design Approach. *American Economic Review* 93, No. 3, pp. 729-747.

\* Hafalir I.E., Yenmez M.B., Yildirim M.A. (2013). Effective affirmative action in school choice. *Theoretical Economics* 8, Issue 2, pp. 325–363.

\* Kojima F (2012) School choice: Impossibilities for affirmative action. *Games and Economic Behavior* 75, Issue 2, pp. 685-693.

\* Neal, chapter 3.

Abdulkadiroglu A, Che Y-K, Pathak P.A., Roth A.E., Tercieux O (2017). “Minimizing Justified Envy in School Choice: The Design of New Orleans' OneApp”. NBER Working Paper 23265.

(SP) Avery, C. and P. Pathak (2017). The distributional consequences of public school choice. NBER WP 21525, latest version here: <https://economics.mit.edu/files/14472>

(SP) Calsamiglia, C., C. Fu, and M. Guell (2018). Structural Estimation of a Model of School Choices: the Boston Mechanism vs. Its Alternatives. NBER WP 24588. <https://www.nber.org/papers/w24588>.

Dur U, Kominers S.D., Pathak P, Sönmez T (2016). Reserve Design: Unintended Consequences and The Demise of Walk Zones in Boston. Working paper, MIT. <https://economics.mit.edu/files/12443>.

(SP) Fack, G., J. Grenet, and Y. He (2015?), “Beyond Truth-Telling: Preference Estimation with Centralized School Choice and College Admissions”, forthcoming *American Economic Review*.

(RR) Kapor et al (2018), “Heterogeneous Beliefs and School Choice Mechanisms”, NBER WP 25096. <https://www.nber.org/papers/w25096>.

(RR) Kessel, D. and E. Olme (2018). School Choice, Admission Rules and Segregation in Primary Schools. <https://sites.google.com/view/elisabetolme/research?authuser=0>

Luflade, M. (2017), “The value of information in centralized school choice systems”, mimeo.

SURVEY: Pathak, P. A. (2011). The mechanism design approach to student assignment. *Annual Review of Economics*, 3(1):513–536.

CLASSIC: Gale D, Shapley L.S. (1962). College Admissions and the Stability of Marriage. *The American Mathematical Monthly* Vol. 69, No. 1, pp. 9-15

## **Lecture 12: School management and specific interventions (from 2023 to be updated)**

\* Bloom, N., R. Lemos, R. Sadun, J. Van Reenen (2015). Does Management Matter in Schools? *Economic Journal*, 125, 647-674.

\* Fryer, R (2017). The Pupil Factory: Specialization and the production of human capital in Schools. *American Economic Review* (forthcoming). Available here: <https://scholar.harvard.edu/fryer/publications/%E2%80%98pupil%E2%80%99-factory-specialization-and-production-human-capital-schools>

\* Fryer, R. (2017). Management and Student Achievement: Evidence from a Randomized Field Experiment. Available here: <https://scholar.harvard.edu/fryer/publications/management-and-student-achievement-evidence-randomized-field-experiment>

\* Neal, chapter 6

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