Carleton University
Econ 5362
Labour Economics II – Winter 2023

Professor: Dr. Louis-Philippe Beland,
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Class: Friday: 8:35 am-11:25 am via zoom
Office Hours: by appointment, please email.
TA: this class has no TA.

Course Description
Personnel economics and contract theory. Topics include the economics of discrimination, the economics of the household, gender and fertility, immigration and labour mobility.

Textbooks:
- Pierre Cahuc, Stéphane Carcillo, André Zylberberg, Labor Economics, second edition
- Angrist, J.D. and J-S. Pischke. Mostly Harmless Econometrics: An Empiricist's Companion.

Books available here: CU bookstore website (https://www.bkstr.com/carletonstore/shop/textbooks-and-course-materials). This course is structured to follow the chapters of the above course textbook. PDF or word notes for each chapter will be available on CUlearn.

Supplementary Text Books:
- Cameron, A.C. and P.K. Trivedi. Microeconometrics: Methods and Applications.
- Wooldridge, J. Econometric Analysis of Cross Section and Panel Data.
- Greene, W.H. Econometric Analysis.
- Angrist, J.D. and J-S. Pischke. Mastering 'Metrics: The Path from Cause to Effect
- Public Finance and Public Policy 5th Edition, Jonathan Gruber

Course Requirements: The course involves lectures and discussions. Course grade will be based on exams, class participation, and a research proposal.
Class Participation (10%): Students are expected to participate in class by coming prepared to discuss the assigned material(s). Students must have read assigned papers prior to class and be prepared to discuss the papers.
Presentations (20%): Students will present papers of their choice on the reading lists (bold below).
Exams (50%): Two exams accounting for 20% each of the course grade. All exams will be online. "Please note that tests and examinations given online in this course may use e-Proctoring, a remote proctoring service provided by Scheduling and Examination Services. More information may be obtained at https://carleton.ca/ses/e-proctoring/"
Research Proposal and Literature review (20%): Students will write one research proposal for a topic on a labour economics. The proposal should clearly specify the research question and include a critical review of the existing literature, the contributions of your project to the literature and a description of the data set along with the econometric methodology to be used in the project. Students are expected to discuss the research proposal idea with me and getting approval by no later than February 29. Subject to my approval, you can start working on the proposal project. A preliminary outline of the project is due March 21. The submission deadline for the project is on April 22th (no extension possible).

Brightspace will be used for the following: All course announcements and email; Assignments of paper presentation; links to the course slides. The class will be in person. Students will present assigned papers during class time. Others students will comment and discuss these papers.

Grading Scale:

A+ 90-100	B+ 77-79	C+ 67-69	D+ 57-59	
A 85-89	B 73-76	C 63-66	D 53-56	F 0-49
A- 80-84	B- 70-72	C- 60-62	D- 50-52	

Tentative Schedule: (subject to changes!)

February 24 – Exam 1
April 7 – Exam 2
April 21: Research Proposal Submission (no extension possible)

Makeup exams will be provided for only very special circumstances. It is expected that the students have read the assigned material prior to class for the background necessary to properly participate in the discussion and think critically about the concepts addressed. As a general policy, for each hour you are in class, you (the student) should plan to spend at least two hours preparing for the next class. Since this course is for three credit hours, you should expect to spend at least six hours outside of class each week reading or writing assignments for the class.

Course Outline (subject to change):

1. **Empirical tools for research**
2. **Human Capital and Education**
3. **Economics of the household, gender and fertility**
4. **Inequality & Discrimination**
5. **Immigration and mobility**

Additional Information

Course Standing

Standing in a course is determined by the course instructor subject to the approval of the Faculty Dean. This means that grades submitted by the instructor may be subject to revision. No grades are final until they have been approved by the Dean. Application to write a deferred final examination must be made at the Registrar's Office.

Academic Integrity and Offenses of Conduct

Please be aware that plagiarism is serious offence at Carleton and should be recognized and avoided. For information on how to do so, please see "Academic Integrity and Offenses of Conduct" at https://carleton.ca/economics/courses/writing-preliminaries/academic-integrity-and-offenses-of-conduct/

Copyright of Course Materials

Student or professor materials created for this course (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the author(s). They are intended for personal use and may not be reproduced or redistributed without prior written consent of the author(s).

Accessibility and Accommodation

Carleton University is committed to providing access to the educational experience in order to promote academic accessibility for all individuals.
Academic accommodation refers to educational practices, systems and support mechanisms designed to accommodate diversity and difference. The purpose of accommodation is to enable students to perform the essential requirements of their academic programs. At no time does academic accommodation undermine or compromise the learning objectives that are established by the academic authorities of the University.

The Centre for Student Academic Support (CSAS) is a centralized collection of learning sup- port services designed to help students achieve their goals and improve their learning. CSAS offers academic assistance with student success, course content, academic writing and skills development. For more details, visit the CSAS website (https://carleton.ca/csas/).

Requests for Academic Accommodation

You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:
For more details please see: https://students.carleton.ca/course-outline/

Pregnancy obligation

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website.

Religious obligation

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website.

Academic Accommodations for Students with Disabilities
If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or pmc@carleton.ca for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. For more details, visit the Paul Menton Centre website.

Survivors of Sexual Violence
As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and where survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: carleton.ca/sexual-violence-support.

Accommodation for Student Activities
Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, see the policy.

Reading List and Suggestions of Papers

Any promising topics related to labour economics is encouraged for a research topic. In Bold are my suggestions for class presentations.

1. Empirical tools for research

-Angrist, J.D. and J-S. Pischke. Mostly Harmless Econometrics: An Empiricist's Companion.
-Bertrand, Marianne, Esther Duflo, and Sendhil Mullainathan. "How much should we trust differences-in-differences estimates?." The Quarterly journal of economics 119.1 (2004): 249-275.
-Bound, J., Jaeger, D. A., & Baker, R. M. (1995). Problems with instrumental variables estimation when the correlation between the instruments and the endogenous explanatory variable is weak. Journal of the American statistical association, 90(430), 443-450.
-Cattaneo, M. D., Idrobo, N., & Titiunik, R. (2017). A Practical Introduction to Regression Discontinuity Designs. Working Manuscript. URL: https://www.collingwoodresearch.com/uploads/8/3/6/0/8360930/cattaneo-idrobo-titiunik_2017_cambridge-part1.pdf

See also stata software: https://cattaneo.princeton.edu/software

-Cunningham, Scott – Mixtape book on causal inference. https://www.scunning.com/mixtape.html
-Gelman, A., & Imbens, G. (2018). Why high-order polynomials should not be used in regression discontinuity designs. Journal of Business & Economic Statistics, 1-10.
- Imbens, Guido W. and Thomas Lemieux. "Regression discontinuity designs: A guide to practice."
- Lemieux, Thomas - lecture notes - https://economics.ubc.ca/faculty-and-staff/thomas-lemieux/
-Sarsons, H. (2015). Rainfall and conflict: A cautionary tale. Journal of development Economics, 115, 62-72.

2. Covid-19, Labour market and economic outcomes

Aucejo, E. M., French, J., Araya, M. P. U., & Zafar, B. (2020). The impact of COVID-19 on student experiences and expectations: Evidence from a survey. Journal of Public Economics, 104271.
Adams-Prassl, A., Boneva, T., Golin, M., & Rauh, C. (2020). Inequality in the impact of the coronavirus shock: Evidence from real time surveys., Journal of Public Economics
Baron, E. J., Goldstein, E. G., & Wallace, C. T. (2020). Suffering in Silence: How COVID-19 School Closures Inhibit the Reporting of Child Maltreatment. Available at SSRN 3601399.
Béland, L. P., Brodeur, A., & Wright, T. (2020). The short-term economic consequences of Covid-19: exposure to disease, remote work and government response.
Beland, L. P., Fakorede, O., & Mikola, D. (2020). Short-Term Effect of COVID-19 on Self-Employed Workers in Canada. Canadian Public Policy, 46(S1), S66-S81.
Beland, L. P., Brodeur, A., Mikola, D., & Wright, T. (2021). The Short-Term Economic Consequences of COVID-19: Occupation Tasks and Mental Health in Canada. Canadian Journal of Economics
Barnes, Stephen R., Louis-Philippe Beland, Jason Huh, and Dongwoo Kim. The Effect of COVID-19 Lockdown on Mobility and Traffic Accidents: Evidence from Louisiana. No. 616. GLO Discussion Paper, 2020.
Dingel, Jonathan I., and Brent Neiman. How many jobs can be done at home?. Journal of Public Economics, 2020.
Humphries, J. E., Neilson, C. A., & Ulyssea, G. (2020). Information frictions and access to the Paycheck Protection Program. Journal of public economics, 190, 104244.
Kong, E., & Prinz, D. (2020). Disentangling policy effects using proxy data: Which shutdown policies affected unemployment during the COVID-19 pandemic?. Journal of Public Economics, 189, 104257.
Leslie, Emily, and Riley Wilson. "Sheltering in place and domestic violence: Evidence from calls for service during COVID-19." Journal of Public Economics (2020).

Persico, C., & Johnson, K. R. (2020). Deregulation in a Time of Pandemic: Does Pollution Increase Coronavirus Cases or Deaths?.

3. Human Capital and Education

-Ashenfelter, O., & Rouse, C. (1998). Income, schooling, and ability: Evidence from a new sample of identical twins. The Quarterly Journal of Economics, 113(1), 253-284.

- Ashenfelter, O. and A. Krueger (1994), "Estimates of the Economic Return to Schooling from a New Sample of Twins," American Economic Review, 84, 1157-1173.

-Angrist, Joshua, et al. "Vouchers for Private Schooling in Colombia: Evidence from a Randomized Natural Experiment." American Economic Review 92(5), (2002), 1535–1558.

-Angrist, Joshua D., and Alan B. Keueger. "Does compulsory school attendance affect schooling and earnings?." *The Quarterly Journal of Economics* 106.4 (1991): 979-1014.

-Angrist, Joshua, Parag A. Pathak, and Christopher R. Walters."Explaining Charter School Effectiveness." American Economic Journal: Applied Economics, 5.4 (2013): 1-27.

-Anderson, D. M. (2014). In school and out of trouble? The minimum dropout age and juvenile crime. Review of Economics and Statistics, 96(2), 318-331.

Altmejd, A., Barrios Fernández, A., Drlje, M., Hurwitz, M., Kovac, D., Mulhern, C., ... & Goodman, J. (2020). O Brother, Where Start Thou? Sibling Spillovers on College and Major Choice in Four Countries.

- Beland, L. P., & Murphy, R. (2016). Ill communication: technology, distraction & student performance. Labour Economics, 41, 61-76.

- Bettinger, E., Gurantz, O., Kawano, L., Bruce, S., & Stevens, M. The Long Run Impacts of Financial Aid: Evidence from California's Cal Grant. American Economic Journal: Economic Policy.

-Bettinger, E. P., Long, B. T., Oreopoulos, P., & Sanbonmatsu, L. (2012). The role of application assistance and information in college decisions: Results from the H&R Block FAFSA experiment. The Quarterly Journal of Economics, 127(3), 1205-1242.

-Card, D., & Krueger, A. B. (1992). Does school quality matter? Returns to education and the characteristics of public schools in the United States. Journal of political Economy, 100(1), 1-40.

-Carrell, Scott, and Bruce Sacerdote. "Why do college-going interventions work?." American Economic Journal: Applied Economics 9.3 (2017): 124-51.

-Carrell, Scott E., and Mark L. Hoekstra. "Externalities in the classroom: How children exposed to domestic violence affect everyone's kids." *American Economic Journal: Applied Economics* 2.1 (2010): 211-28.

- Carrell, Scott E., and Elira Kuka, Mark L. Hoekstra, The Long-Run Effects of Disruptive Peers, *American Economic Review*, forthcoming

- Chetty, R., Friedman, J.N., Hilger, N.. Saez, E., Whitmore Schanzenbach, D. and D. Yagan (2011), "How Does Your Kindergarten Classroom Affect Your Earnings? Evidence from Project Star," *Quarterly Journal of Economics*, 126, 1593-1660.

-Clark, Damon and Paco Martorell "The Signaling Value of a High School Diploma" Journal of Political Economy 122(2), 282-318.

-Currie, Janet, and Enrico Moretti. "Mother's education and the intergenerational transmission of human capital: Evidence from college openings." The Quarterly Journal of Economics 118.4 (2003): 1495-1532.

-Deming, David, Claudia Goldin, and Lawrence F. Katz. "The For-Profit Postsecondary School Sector: Nimble Critters or Agile Predators?" Journal of Economic Perspectives (2012), vol. 26(1), pages 139-64.

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

-Duflo, Esther, "Grandmothers and Granddaughters: Old?Age Pensions and Intrahousehold Allocation in South Africa" World Bank Economic Review, 17(1) (2003): 1–25.

-Dynarski, Susan. 2003. “Does Aid Matter? Measuring the Effect of Student Aid on College Attendance and Completion.” *American Economic Review*, March: 279-288.
-Fack, Gabrielle, and Julien Grenet, “Improving College Access and Success for Low-Income Students: Evidence from a Large French Need-based Grant Program,” American Economic Journal: Applied Economics, 2014.
- Figlio, D.N. and C.E. Rouse (2006), “Do Accountability and Voucher Threats Improve Low- Performing Schools?” Journal of Public Economics, 90, 239-255.
-Goodman, J., Hurwitz, M., Park, J., & Smith, J. (2020). Heat and Learning. American Economic Journal: Economic Policy
Goodman, J., Gurantz, O., & Smith, J. (2020). Take two! SAT retaking and college enrollment gaps. American Economic Journal: Economic Policy, 12(2), 115-58.
-Hanushek, Eric A., and Steven G. Rivkin. "The distribution of teacher quality and implications for policy." Annu. Rev. Econ. 4.1 (2012): 131-157.
- Hoekstra, M. (2009): “The Effect of Attending the Flagship State University on Earnings: A Discontinuity-Based Approach,” *Review of Economics and Statistics,* 91, 717-724.
- Hoffmann, Florian, and Philip Oreopoulos. "A professor like me the influence of instructor gender on college achievement." *Journal of Human Resources* 44.2 (2009): 479-494.
- Jacob, B.A., L. Lefgren, and D. Sims (2010), “The Persistence of Teacher-Induced Learning Gains,” Journal of Human Resources, 45, 915-943.
-Krueger, A. B., & Whitmore, D. M. (2001). The effect of attending a small class in the early grades on college-test taking and middle school test results: Evidence from Project STAR. The Economic Journal, 111(468), 1-28.
-Lochner, L., & Moretti, E. (2004). The effect of education on crime: Evidence from prison inmates, arrests, and self-reports. American economic review, 94(1), 155-189.
-Machin, S., Salvanes, K. G., & Pelkonen, P. (2012). Education and mobility. Journal of the European Economic Association, 10(2), 417-450.
-Milligan, Kevin, Enrico Moretti, and Philip Oreopoulos. “Does education improve citizenship? Evidence from the United States and the United Kingdom.” Journal of Public Economics 88.9 (2004): 1667-1695.
- Mincer, J. (1975). ‘‘Education, Experience and the Distribution of Earnings and Employment: An Overview,’’ NBER Press.
-Oreopoulos, Philip, and Kjell G. Salvanes. "Priceless: The non-pecuniary benefits of schooling." Journal of Economic perspectives 25.1 (2011): 159-84.
- Pop-Eleches, C. and M. Urquiola (2013), “Going to a Better School: Effects and Behavioral Responses,” American Economic Review, 103, 1289-1324.
-Rouse, Cecilia Elena. “Private school vouchers and student achievement: An evaluation of the Milwaukee parental choice program.” Quarterly Journal of Economics 113.2 (1998): 553-602.
- Rothstein, J. (2010), “Teacher Quality in Educational Production: Tracking, Decay, and Student Achievement,” Quarterly Journal of Economics 125(1), 175-214.
-Thompson, O. (2017). School Desegregation and Black Teacher Employment.
- Lavy, V., D. Paserman, and A. Schlosser (2012), “Inside the Black Box of Ability Peer Effects: Evidence from Variation in the Proportion of Low Achievers in the Classroom,” Economic Journal, 112, 208-237.

4. Economics of the household, gender and fertility

-Bauernschuster, S., & Schlotter, M. (2015). Public child care and mothers' labor supply—Evidence from two quasi-experiments. Journal of Public Economics, 123, 1-16.
- Baker, M.J. and J.P. Jacobsen (2007), “Marriage, Specialization, and the Gender Division of Labor,” Journal of Labor Economics, 25, 763-793.

- Black, D. A., Kolesnikova, N., & Taylor, L. J. (2014). Why do so few women work in New York (and so many in Minneapolis)? Labor supply of married women across US cities. Journal of Urban Economics, 79, 59-71.
- Bloom, D. E., Canning, D., Fink, G., & Finlay, J. E. (2009). Fertility, female labor force participation, and the demographic dividend. Journal of Economic Growth, 14(2), 79-101.
-Blomquist, S. and H. Selin (2010), "Hourly Wage Rate and Taxable Labor Income Responsiveness to Changes in Marginal Tax Rates," *Journal of Public Economics*, 94, 878-889.
- Blundell, R., Duncan, A., & Meghir, C. (1998). Estimating labor supply responses using tax reforms. Econometrica, 827-861.
- Blundell, R., Duncan, A., & Meghir, C. (1992). Taxation in empirical labour supply models: lone mothers in the UK. The Economic Journal, 102(411), 265-278.
-Blundell, R., Pistaferri, L., & Saporta-Eksten, I. (2016). Consumption inequality and family labor supply. American Economic Review, 106(2), 387-435.
-Connolly, M. (2008). Here comes the rain again: Weather and the intertemporal substitution of leisure. Journal of Labor Economics, 26(1), 73-100.
- Lemieux, Thomas and Kevin Milligan. 2008. "Incentive effects of social assistance: A regression discontinuity approach." *Journal of Econometrics*, 142(2008): 807-828.
-Camerer, C., L. Babcock, G. Lowenstein, and R. Thaler (1997), "Labor Supply of New York City Cabdrivers: One Day at a Time," Quarterly Journal of Economics 112, 407-441.
- Chiappori, P.A., B. Fortin, and G. Lacroix (2002), "Marriage Market, Divorce Legislation, and Household Labor Supply," Journal of Political Economy, 110, 37-72.
- Farber, H. S. (2015). Why you can't find a taxi in the rain and other labor supply lessons from cab drivers. The Quarterly Journal of Economics, 130(4), 1975-2026.
- Fetter, D. K., & Lockwood, L. M. (2016). Government Old-Age Support and Labor Supply: Evidence from the Old Age Assistance Program, American Economic Review, forthcoming.
-French, E., & Song, J. (2014). The effect of disability insurance receipt on labor supply. American Economic Journal: Economic Policy, 6(2), 291-337.
-Gonzalez-Chapela, J. (2007). On the price of recreation goods as a determinant of male labor supply. Journal of Labor Economics, 25(4), 795-824.
- Hall, J. V., & Krueger, A. B. (2018). An analysis of the labor market for Uber's driver-partners in the United States. ILR Review, 71(3), 705-732.
-LaLumia, S. (2008), "The Effects of Joint Taxation of Married Couples on Labor Supply and Non- wage Income," Journal of Public Economics, 92, 1698-1719.
- Lundborg, Peter & Erik Plug & Astrid Würtz Rasmussen, 2017. "Can Women Have Children and a Career? IV Evidence from IVF Treatments," American Economic Review, American Economic Association, vol. 107(6), pages 1611-1637, June.
-Simonsen, M. (2010), "Price of High-Quality Daycare and Female Employment," Scandinavian Journal of Economics, 112, 570-594.
- Yang, T. T. (2018). Family Labor Supply and the Timing of Cash Transfers Evidence from the Earned Income Tax Credit. Journal of Human Resources, 53(2), 445-473.

4. Inequality, Discrimination & Intergenerational Mobility

-Agan, A., & Starr, S. (2017). Ban the Box, Criminal Records, and Racial Discrimination: A Field Experiment. The Quarterly Journal of Economics, 133(1), 191-235.
-Angrist, J and D. Acemoglu, "Consequences of Employment Protection? The Case of the Americans with Disabilities Act," Journal of Political Economy, October 2001.
-Aizer, A. (2010). The Gender Wage Gap and Domestic Violence. American Economic Review, 100(4):1847{1859

-Bayer, P., & Charles, K. K. (2018). Divergent Paths: A New Perspective on Earnings Differences Between Black and White Men Since 1940. The Quarterly Journal of Economics, 133(3), 1459-1501.
-Bertrand, Marianne, and Sendhil Mullainathan. "Are Emily and Greg more employable than Lakisha and Jamal? A field experiment on labor market discrimination." ***American economic review*** **94.4 (2004): 991-1013.**
-Beland, Louis-Philippe. "Political parties and labor-market outcomes: Evidence from us states." *American Economic Journal: Applied Economics* 7.4 (2015): 198-220.
- Biddle, J. E., & Hamermesh, D. S. (1998). Beauty, productivity, and discrimination: Lawyers' looks and lucre. Journal of Labor Economics, 16(1), 172-201.
- Black, Sandra an Paul J. Devereux and Kjell Salvanes, 2005. "Why the apple doesn't fall far: understanding intergenerational transmission of human capital". ***American Economic Review*****, vol. 95, pp. 437–449.**
-Blau, F. D., & Kahn, L. M. (2017). The gender wage gap: Extent, trends, and explanations. *Journal of Economic Literature*, *55*(3), 789-865.
-Bjerk, David. 2007. "The Differing Nature of Black-White Wage Inequality across Occupational Sectors." Journal of Human Resources 42 (2): 398–434.
-Card, David, and Alan B. Krueger. 1993. "Trends in Relative Black-White Earnings Revisited." American Economic Review 83 (2): 85–91.
-Card, D., Cardoso, A. R., & Kline, P. (2015). Bargaining, sorting, and the gender wage gap: Quantifying the impact of firms on the relative pay of women. The Quarterly Journal of Economics, 131(2), 633-686.
-Connolly, Marie, Miles Corak et Catherine Haeck (2017), « Intergenerational Mobility between and within Canada and the United States »
-Cohodes, S. R., Grossman, D. S., Kleiner, S. A., & Lovenheim, M. F. (2016). The effect of child health insurance access on schooling: Evidence from public insurance expansions. *Journal of Human Resources*, *51*(3), 727-759.
-Chetty, R., Hendren, N., Kline, P., Saez, E., & Turner, N. (2014). Is the United States still a land of opportunity? Recent trends in intergenerational mobility. ***American Economic Review, 104*****(5), 141-47.**
-Chetty, R., & Hendren, N. (2018). The impacts of neighborhoods on intergenerational mobility i: Childhood exposure effects. The Quarterly Journal of Economics, 133(3), 1107-1162.
- Chetty, Raj, and Nathaniel Hendren. "The impacts of neighborhoods on intergenerational mobility II: County-level estimates." The Quarterly Journal of Economics 133.3 (2018): 1163-1228.
-Deming, D. J., Yuchtman, N., Abulafi, A., Goldin, C., & Katz, L. F. (2016). The value of postsecondary credentials in the labor market: An experimental study. American Economic Review, 106(3), 778-806.
- Edelman, Benjamin, Michael Luca, and Dan Svirsky. "Racial discrimination in the sharing economy: Evidence from a field experiment." American Economic Journal: Applied Economics 9, no. 2 (2017): 1-22.
-Neumark, D., Burn, I., & Button, P. (2019). Is it harder for older workers to find jobs? New and improved evidence from a field experiment. Journal of Political Economy, 127(2), 922-970.
- Oreopoulos, Philip, Marianne Page and Ann Huff Stevens, 2008. "The Intergenerational Effects of Worker Displacement" Journal of Labor Economics, vol. 26, pp. 455-483.
- Piketty, Thomas, and Emmanuel Saez. "Income inequality in the United States, 1913–1998." *The Quarterly journal of economics* 118.1 (2003): 1-41.
- Saez, Emmanuel and Gabriel Zucman, "Wealth Inequality in the United States since 1913: Evidence
from Capitalized Income Tax Data", Quarterly Journal of Economics 131(2), 2016, 519-578.
-Gary Solon, 1992 "Intergenerational Income Mobility in the United States," American Economic Review Vol. 82, pp. 393-408.

5 Technical Progress

Acemoglu, D., & Autor, D. (2011). Skills, tasks and technologies: Implications for employment and earnings. In Handbook of labor economics (Vol. 4, pp. 1043-1171). Elsevier.

Autor, David, H., & Dorn, D. (2013). The growth of low-skill service jobs and the polarization of the US labor market. American Economic Review, 103(5), 1553-97.

Autor, D. H., Katz, L. F., & Krueger, A. B. (1998). Computing inequality: have computers changed the labor market?. The Quarterly Journal of Economics, 113(4), 1169-1213.

Autor, D. H., Dorn, D., & Hanson, G. H. (2015). Untangling trade and technology: Evidence from local labour markets. The Economic Journal, 125(584), 621-646.

Autor, D. H., Levy, F., & Murnane, R. J. (2003). The skill content of recent technological change: An empirical exploration. The Quarterly journal of economics, 118(4), 1279-1333.

Berman, E., Bound, J., & Griliches, Z. (1994). Changes in the demand for skilled labor within US manufacturing: evidence from the annual survey of manufactures. The Quarterly Journal of Economics, 109(2), 367-397.

Beaudry, P., Doms, M., & Lewis, E. (2010). Should the personal computer be considered a technological revolution? Evidence from US metropolitan areas. Journal of Political Economy, 118(5), 988-1036.

DiNardo, J. E., & Pischke, J. S. (1997). The returns to computer use revisited: Have pencils changed the wage structure too?. The Quarterly Journal of Economics, 112(1), 291-303.

Entorf, H., & Kramarz, F. (1997). Does unmeasured ability explain the higher wages of new technology workers?. European Economic Review, 41(8), 1489-1509.

Entorf, H., Gollac, M., & Kramarz, F. (1999). New technologies, wages, and worker selection. Journal of Labor Economics, 17(3), 464-491.

Firpo, S., Fortin, N., & Lemieux, T. (2011). Occupational tasks and changes in the wage structure.

Goldin, C., & Katz, L. (2008). The race between technology and education. Cambridge, MA: Harvard.

Katz, L. F., & Murphy, K. M. (1992). Changes in relative wages, 1963–1987: supply and demand factors. The quarterly journal of economics, 107(1), 35-78.

Krueger, A. B. (1993). How computers have changed the wage structure: evidence from microdata, 1984–1989. The Quarterly Journal of Economics, 108(1), 33-60.

Machin, S., & Van Reenen, J. (1998). Technology and changes in skill structure: evidence from seven OECD countries. The Quarterly Journal of Economics, 113(4), 1215-1244.

6. Immigration

-Abramitzky, R., Boustan, L. P., & Eriksson, K. (2012). Europe's tired, poor, huddled masses: Self-selection and economic outcomes in the age of mass migration. American Economic Review, 102(5), 1832-56.

- Abramitzky, R., Leah Platt Boustan, Elisa Jácome, and Santiago Pérez Intergenerational Mobility of Immigrants in the US over Two Centuries NBER Working Paper No. 26408

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