

Chad Jones and Pete Klenow
Stanford GSB and Department of Economics
Fall Quarter, 2025

MgtEcon 610 and Econ 233 Topics in Macroeconomics -- Economic Growth (Ph.D. Macro Course)

Meeting: Tuesdays and Thursdays, 1:30 - 3:20pm in GSB room E259

Office Hours: By appointment and encouraged!

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See the [Dropbox folder](#) for the course.

Overview

This course studies frontier research on economic growth. The purpose of the course is to introduce you to the latest research and prepare you to undertake research on your own.

Requirements

(1) Prepare slides on one designated paper for each class (the first paper listed for the class). This starts on Tuesday September 30. Three slides total: one slide on what's good about the paper, one slide on its weaknesses, and one slide on where to go next. At the start of the class, we will call on one student randomly and ask them to present their three slides. Put your slides in the Dropbox folder by 10am on the day of class.

(2) For each class, starting Tuesday September 30, we will post a short question or problem related to the first paper. You should answer that question/problem and turn in your solution as a final slide (or two) attached to your slides for requirement (1) above. Also add a slide on the economic environment for the model in the paper (if not applicable we will alert you to that). The problems will be available [here](#).

(3) Lead part of a class. Each student will take responsibility for preparing slides and leading the discussion for 50 minutes on one paper during the course; suggested papers are indicated by an asterisk (*) below. Please email us your top three choices by Friday September 26 so we can assign papers. Put your presentation slides in the Dropbox folder by 10am on the day of the class you are presenting.

(4) A research proposal. Throughout the class (and for the rest of your life!), you should keep a list of possible research topics. During the last week of classes at the end of the quarter, December 2 and December 4, you will be expected to make a ~20 minute slide presentation on your idea: What is the key question you hope to answer, and how will you go about answering it? Put your proposal slides in the Dropbox folder by 10 am on the day you are presenting.

Background References

The following readings and references may prove useful at some point. The Acemoglu book is a great resource.

Acemoglu, Daron. 2009. *Introduction to Modern Economic Growth* (Princeton University Press).

Aghion, Philippe, Ufuk Akcigit, and Peter Howitt. 2014. "[What Do We Learn From Schumpeterian Growth Theory?](#)" *Handbook of Economic Growth*, Volume 2B, Chapter 1.

Jones, Charles I. and Dietz Vollrath. 2024. *Introduction to Economic Growth*. Advanced undergraduate-level treatment.

Jones, Charles I. 2016. "[The Facts of Economic Growth](#)" *Handbook of Macroeconomics*.

Jones, Charles I. (2019), "[Paul Romer: Ideas, Nonrivalry, and Endogenous Growth](#)" *Scandinavian Journal of Economics*, July: pp. 859-883.

[Tuesday September 23 \(PK\)](#)

Klette, Tor Jakob and Samuel S. Kortum (2004), "[Innovating Firms and Aggregate Innovation](#)" *Journal of Political Economy* 112, October: 986-1018.

Garcia-Macia, Daniel, Chang-Tai Hsieh and Peter J. Klenow (2019), "[How Destructive is Innovation?](#)" *Econometrica* 87, September: 1507-1541.

[Thursday September 25 \(CJ\)](#)

Romer, Paul M. (1990), "[Endogenous Technological Change](#)" *Journal of Political Economy* 98, October: S71-S102.

Jones, Charles I. (2005), "[Growth and Ideas](#)" *Handbook of Economic Growth* 1B: 1063-1111.

Jones, Charles I. (2022), "[The Past and Future of Economic Growth: A Semi-Endogenous Perspective](#)" *Annual Review of Economics*, Volume 14, pp. 125-152.

[September 30 \(CJ\)](#)

Kortum, Samuel S. (1997), "[Research, Patenting, and Technological Change](#)" *Econometrica* 65, November: 1389-1419.

Jones, Charles I. (2023), "[Recipes and Economic Growth: A Combinatorial March Down an Exponential Tail](#)" *Journal of Political Economy* 131, August: 1994-2031.

October 2 (CJ)

Peters, Michael (2020), “[Heterogeneous Mark-Ups, Growth and Endogenous Misallocation](#)”, *Econometrica* 88, September: 2037-2073.

Peters, Michael and Conor Walsh (2024), “[Population Growth and Firm-Product Dynamics](#)”, *JPE Macroeconomics* (forthcoming).

October 7 (PK)

Melitz, Marc (2003) ”[The Impact of Trade on Intra-Industry Reallocations and Aggregate Industry Productivity](#)” *Econometrica* 71, November: 1695-1725.

Arkolakis, Costas, Arnaud Costinot, and Andres Rodriguez-Clare (2012), “[New Trade Models, Same Old Gains?](#)”, *American Economic Review* 102, February: 94-130.

October 9 (CJ)

Jones, Charles I. (2016) “[Life and Growth](#)” *Journal of Political Economy* 124, April: 539-578.

Jones, Charles I. (2022), “[Taxing Top Incomes in a World of Ideas](#)” *Journal of Political Economy* 130, September: 2227-2274.

October 14 (PK)

Hsieh, Chang-Tai and Peter J. Klenow (2009), “[Misallocation and Manufacturing TFP in China and India](#)” *Quarterly Journal of Economics* 124, November: 1403-1448.

Hsieh, Chang-Tai and Peter J. Klenow (2014), “[The Life Cycle of Plants in India and Mexico](#)” *Quarterly Journal of Economics* 129, August: 1035-1084.

October 16 (CJ)

Acemoglu, Daron and Pascual Restrepo (2022) “[Tasks, Automation, and the Rise in US Wage Inequality](#)” *Econometrica* 90, September: 1973-2016.

Jones, Chad (2024), “[The A.I. Dilemma: Growth versus Existential Risk](#)”, *AER: Insights*.

October 21 (PK)

(Alex) Baqaee, David and Emmanuel Farhi (2020), “[Productivity and Misallocation in General Equilibrium](#)” *Quarterly Journal of Economics* 135, February: 105-163.

(Marco) De Loecker, Jan, Jan Eeckhout, and Gabriel Unger (2020), “[The Rise of Market Power and the Macroeconomic Implications](#),” *Quarterly Journal of Economics* 135, May: 561-644.

October 23 (CJ)

Perla, Jesse, Christopher Tonetti, and Michael E. Waugh (2021), [“Equilibrium Technology Diffusion, Trade and Growth.”](#) *American Economic Review* 111, January: 73-128.

(David) Buera, Francisco J. and Ezra Oberfield (2020), [“The Global Diffusion of Ideas,”](#) *Econometrica* 88, January: 83-114.

October 28 -- NO CLASS

October 30 (CJ/PK)

(Krzysztof) Acemoglu, Daron, Philippe Aghion, Leonardo Bursztyn, and David Hemous (2012), [“The Environment and Directed Technical Change”](#) *American Economic Review* 102(1): 131–166.

Golosov, M, J. Hassler, P. Krusell, A. Tsyvinski (2014), [“Optimal Taxes on Fossil Fuel in General Equilibrium”](#) *Econometrica*, 82(1): 41-88.

November 4 (PK)

Hendricks and Schoellman (2018) [“Human Capital and Development Accounting: New Evidence from Wage Gains at Migration,”](#) *Quarterly Journal of Economics* 133, May: 665-700.

Lagakos, David, Benjamin Moll, Tommaso Porzio, Nancy Qian, and Todd Schoellman (2018), [“Life-Cycle Wage Growth Across Countries”](#) *Journal of Political Economy* 126, April: 797-849.

November 6 (PK)

Hottman, Colin, Stephen Redding, and David Weinstein (2016), [“Quantifying the Sources of Firm Heterogeneity”](#) *Quarterly Journal of Economics* 131, August: 1291-1364.

Akcigit, Ufuk and Sina Ates (2019), [“What Happened to U.S. Business Dynamism?”](#) forthcoming in the *Journal of Political Economy*.

November 11 (CJ)

(Marta) Autor, David, David Dorn, Lawrence F. Katz, Christina Patterson, John Van Reenen (2020), [“The Fall of the Labor Share and the Rise of Superstar Firms”](#), *Quarterly Journal of Economics* 135, May: 645-709.

(Tina) Moll, Benjamin, Lukasz Rachel, and Pascual Restrepo (2022), [“Uneven Growth: Automation’s Impact on Income and Wealth Inequality”](#), *Econometrica* 90, November: 2645-2683.

November 13 (PK)

Hsieh, Chang-Tai, Erik Hurst, Charles I. Jones, and Peter J. Klenow (2019), [“The Allocation of Talent and U.S. Economic Growth”](#) *Econometrica* 87, September: 1439-1474.

(Baiyang) Akcigit, Baslandze, and Lotti (2023), [“Connecting to Power: Political Connections, Innovation, and Firm Dynamics”](#) *Econometrica* 91, March: 529-564..

November 18 (CJ)

(Yangfan) Jones, Charles I. (2022), “[The End of Economic Growth? Unintended Consequences of a Declining Population](#)” *American Economic Review* 112, November: 3489–3527.

(Gaston) Bloom, Nicholas, Charles I. Jones, John Van Reenen, and Michael Webb (2020), “[Are Ideas Getting Harder to Find?](#)” *American Economic Review* 110, April: 1104–1144.

November 20 (PK)

Caselli, Francesco, and Alan Manning. 2019. "Robot Arithmetic: New Technology and Wages." *American Economic Review: Insights*, 1 (1): 1–12. (Also, [Noahpinion blog on comparative advantage](#))

Mohamad Adhami, Mark Bils, Charles I. Jones, and Peter J. Klenow (2024) “[Population and Welfare: Measuring Growth when Life is Worth Living](#).”

November 25 and 27 -- Thanksgiving Break

December 2 and December 4 -- Student Presentations of Research Proposals

Further Reading: A list of papers we've either included in the past or think about including in the future...

Endogenous Technological Change

Jones, Chad and Chris Tonetti (2020), "[Nonrivalry and the Economics of Data](#)" *American Economic Review* 110, September: 2819-2858.

Hassler, John, Per Krusell, and Conny Olovsson (2021), "[Directed Technical Change as a Response to Natural-Resource Scarcity](#)", *Journal of Political Economy*.

Atkeson, Andrew and Ariel Burstein (2019), "[Aggregate Implications of Innovation Policy](#)," *Journal of Political Economy*.

Aghion, Philippe, Benjamin Jones, and Charles I. Jones (2018), "[Artificial Intelligence and Economic Growth](#)" in *The economics of artificial intelligence: An agenda*, 237-282.

Acemoglu, Daron and Pascual Restrepo, (2018), "[The Race Between Machine and Man: Implications of Technology for Growth, Factor Shares and Employment](#)," *American Economic Review*.

Daron Acemoglu, Ufuk Akcigit, and Murat Alp Celik (2015), "[Young, Restless and Creative: Openness to Disruption and Creative Innovations](#)" unpublished paper.

Acemoglu, Daron, Philippe Aghion, Leonardo Bursztyn, and David Hemous (2012), "[The Environment and Directed Technical Change](#)" *American Economic Review* 102(1): 131–166.

Hall, Robert E. and Jones, Charles I. (2007) "[The Value of Life and the Rise in Health Spending](#)" *Quarterly Journal of Economics* 122: 39-72.

Jones, Charles I. (2005) "[The Shape of Production Functions and the Direction of Technical Change](#)" *Quarterly Journal of Economics*.

Acemoglu, Daron (2003) "[Labor- and Capital-Augmenting Technical Change](#)" *Journal of the European Economic Association* 1: 1-37.

Bils, Mark and Peter J. Klenow (2001), "[Quantifying Quality Growth](#)," *American Economic Review* 91 (September): 1006-1030.

Physical Capital

Oberfield, Ezra and Devesh Raval (2021), "[Micro Data and Macro Technology](#)" *Econometrica*.

Monge-Naranjo, Alexander, Juan M. Sanchez, and Raül Santaella-Llopis (2019), "[Natural Resources and Global Misallocation](#)" *AEJ: Macro*.

Hsieh, Chang-Tai and Peter J. Klenow (2007), "[Relative Prices and Relative Prosperity](#)," *American Economic Review* 97 (June): 562-585.

Young, Alwyn (2005) "[The Gift of the Dying: The Tragedy of AIDS and the Welfare of Future African Generations](#)" *Quarterly Journal of Economics* 120: 243-266.

Gourinchas, Pierre Olivier and Olivier Jeanne (2005), "The Elusive Gains from International Financial Integration," *Review of Economic Studies* 73 (July): 715-741.

Whelan, Karl, "[A Two-Sector Approach to Modeling U.S. NIPA Data](#)," *Journal of Money, Credit, and Banking* August 2003, Vol. 35(4):627-656.

Eaton, Jonathan and Samuel S. Kortum (2001), "Trade in Capital Goods," *European Economic Review* 45 (June): 1195-1235.

Greenwood, Jeremy, Zvi Hercowitz, and Per Krusell, "[Long-Run Implications of Investment-Specific Technological Change](#)," *American Economic Review*, June 1997, 87 (3), 342-362.

Lucas, Robert E. Jr, (1990), "Why Doesn't Capital Flow from Rich to Poor Countries?" *American Economic Review* 80 (May): 92-96.

Human Capital

Rossi, Federico (2022), "[The Relative Efficiency of Skilled Labor across Countries: Measurement and Interpretation](#)," *American Economic Review*.

Grossman, Gene, Elhanan Helpman, Ezra Oberfield, and Thomas Sampson (2017), "[Balanced Growth Despite Uzawa](#)," *American Economic Review*.

Manuelli, Rodolfo and Ananth Seshadri (2014), "[Human Capital and the Wealth of Nations](#)," *American Economic Review* 104: 2736-2762.

Bloom, Nick, Benn Eifert, David McKenzie, Aprajit Mahajan and John Roberts (2013), "[Does Management Matter: Evidence from India](#)" *Quarterly Journal of Economics* 128, February: 1-51.

Schoellman, Todd (2012), "[Education Quality and Development Accounting](#)" *Review of Economic Studies* 79: 388:417.

Erosa, Andres, Tatyana Koreshkova, and Diego Restuccia (2010) "[How Important is Human Capital? A Quantitative Theory Assessment of World Income Inequality](#)" *Review of Economic Studies* 77: 1421-1449.

Hendricks, Lutz (2002), "How Important is Human Capital for Development? Evidence from Immigrant Earnings," *American Economic Review* 92 (March): 198-219.

Acemoglu, Daron and Fabrizio Zilibotti (2001), "Productivity Differences," *Quarterly Journal of Economics* 116 (May): 563-606.

Rebelo, Sergio (1991), "Long Run Policy Analysis and Long Run Growth," *Journal of Political Economy* 99 (June): 500-521.

Stokey, Nancy L. (1991), "Human Capital, Product Quality, and Growth," *Quarterly Journal of Economics* 106 (May): 587-616.

Lucas, Robert E. Jr. (1988), "On the Mechanics of Economic Development," *Journal of Monetary Economics* 22 (July): 3-42.

Agriculture and the Industrial Revolution

Lucas, Robert E. Jr. (2004), "Life Earnings and Rural-Urban Migration," *Journal of Political Economy* 112 (February): S29-S59.

Hansen, Gary D., and Edward C. Prescott (2002) "[Malthus to Solow](#)" *American Economic Review*, 92(4): 1205-1217.

Lucas, Robert E. Jr. (2002), "The Industrial Revolution: Past and Future," Chapter 5 in *Lectures on Economic Growth*.

Caselli, Francesco and John Coleman (2001), "[The U.S. Structural Transformation and Regional Convergence: A Reinterpretation](#)," *Journal of Political Economy* 109 (June): 584-616.

Jones, Charles I. (2001), "Was an Industrial Revolution Inevitable? Economic Growth Over the Very Long Run," *Advances in Macroeconomics* 1 (August).

Misallocation

Yuriy Gorodnichenko, Debora Revoltella, Jan Svejnar, Christoph T. Weiss (2018), "[Resource Misallocation in European Firms: The Role of Constraints, Firm Characteristics and Managerial Decisions](#)" NBER Working Paper No. 24444.

Gollin, Douglas, David Lagakos, and Michael Waugh (2014), "[The Agricultural Productivity Gap in Developing Countries](#)" *Quarterly Journal of Economics* 129: 939-993.

Asker, John, Allan Collard-Wexler, and Jan De Loecker (2014), "[Dynamic Inputs and Resource \(Mis\)Allocation](#)," *Journal of Political Economy* 122: 1013-1063.

Hopenhayn, Hugo A. (2014), "[Firms, Productivity and Misallocation: A Review](#)," *Annual Review of Economics* 6: 735-770

Jones, Charles I. (2013) "[Misallocation, Economic Growth, and Input-Output Economics](#)" in *Advances in Economics and Econometrics*, Tenth World Congress, Volume II, Cambridge University Press.

Buera, Francisco J., Alexander Monge-Naranjo, and Giorgio E. Primiceri (2011) "[Learning the Wealth of Nations](#)" *Econometrica* 79: 1-45.

Restuccia, Diego and Richard Rogerson (2008), "Policy Distortions and Aggregate Productivity with Heterogeneous Plants," *Review of Economic Dynamics*.

Schmitz, James A. Jr. (2005), "[What Determines Labor Productivity? Lessons From the Dramatic Recovery of the U.S. and Canadian Iron-Ore Industries Following Their Early 1980s Crisis](#)" *Journal of Political Economy* 113: 582-625.

Prescott, Edward C. (2004). "[Why Do Americans Work So Much More Than Europeans?](#)" Federal Reserve Bank of Minneapolis Quarterly Review 28: 2-13.

Djankov, Simeon, Rafael La Porta, Florencio Lopez-de-Silanes, and Andrei Shleifer (2002), "[The Regulation of Entry](#)," *Quarterly Journal of Economics* 117 (February): 1-37.

Young, Alwyn (2000), "The Razor's Edge: Distortions and Incremental Reform in the People's Republic of China," *Quarterly Journal of Economics* 115 (November): 1091-1135.

Parente, Stephen L. and Edward C. Prescott (1999), "Monopoly Rights: A Barrier to Riches," *American Economic Review* 89 (December): 1216-1233.

La Porta, Rafael and Florencio Lopez-de-Silanes (1999), "[The Benefits of Privatization: Evidence from Mexico](#)," *Quarterly Journal of Economics* 114 (November): 1193-1242.

Chari, V.V., Patrick J. Kehoe and Ellen R. McGrattan (1997), "The Poverty of Nations: A Quantitative Investigation," Federal Reserve Bank of Minneapolis Staff Report 204 (October).

Clark, Gregory (1987), ["Why Isn't the Whole World Developed? Lessons from the Cotton Mills,"](#) *Journal of Economic History* 47 (March): 141-173.

Firm Dynamics and Growth

Hopenhayn, Hugo, Julian Neira, and Rish Singhania (2022), ["From Population Growth to Firm Demographics,"](#) *Econometrica*.

Aghion, Bergeaud, Boppart, Klenow and Li (2022), ["A Theory of Falling Growth and Rising Rents,"](#) R&R at the *Review of Economic Studies*.

Kehrig, Matthias and Nicolas Vincent (2021), ["The Micro-Level Anatomy of the Aggregate Labor Share Decline,"](#) *Quarterly Journal of Economics*.

Acemoglu, Daron, Ufuk Akcigit, Harun Alp, Nick Bloom, and William Kerr (2018) ["Innovation, Reallocation, and Growth,"](#) *American Economic Review*.

Foster, Lucia, John Haltiwanger, and Chad Syverson (2016), ["The Slow Growth of New Plants: Learning about Demand,"](#) *Economica* 83: 91-129.

Akcigit, Ufuk and William R. Kerr (2015), ["Growth through Heterogeneous Innovations,"](#) R&R at the *Journal of Political Economy*, March.

Decker, Ryan, John Haltiwanger, Ron Jarmin, and Javier Miranda (2014), ["The Role of Entrepreneurship in US Job Creation and Economic Dynamism,"](#) *Journal of Economic Perspectives* 28: 3-24.

Foster, Lucia, John Haltiwanger, and Chad Syverson (2008), ["Reallocation, Firm Turnover, and Efficiency: Selection on Productivity or Profitability?"](#) *American Economic Review* 98 (March): 394-425.

Luttmer, Erzo G.J. (2007), "Selection, Growth, and the Size Distribution of Firms," *Quarterly Journal of Economics* 122 (August): 1103-1144.

Atkeson, Andrew G. and Patrick J. Kehoe (2005), ["Modeling and Measuring Organizational Capital,"](#) *Journal of Political Economy* 113 (October): 1026-1053.

Foster, Laura, John Haltiwanger, and C.J. Krizan (2001), "Aggregate Productivity Growth: Lessons from Microeconomic Evidence," chapter 8 in *New Developments in Productivity Analysis*, C.R. Hulten, E.R. Dean, and M.J. Harper, eds., *Studies in Income and Wealth*, Volume 63: 303-363.

Irwin, Douglas A. and Peter J. Klenow (1994), "Learning by Doing Spillovers in the Semiconductor Industry" *Journal of Political Economy* 102 (December): 1200-1227.

Lucas, Robert E. Jr. (1993), "Making a Miracle," *Econometrica* 61 (March): 251-272.

Baily, Martin Neil, Charles Hulten, and David Campbell (1992), "Productivity Dynamics in Manufacturing Plants," *Brookings Papers on Economic Activity, Microeconomics*: 187-249.

Technology Diffusion

Francisco J. Buera and Robert E. Lucas, Jr. (2018), “[Idea Flows and Economic Growth](#)” *Annual Review of Economics*, Vol. 10: 315-345.

Cole, Harold L., Jeremy Greenwood and Juan M. Sanchez (2016), “Why Doesn’t Technology Flow from Rich to Poor Countries?”, *Econometrica* 84: 1477-1521.

Holmes, Thomas J., Ellen R. McGrattan, and Edward C. Prescott (2015), “[Quid Pro Quo: Technology Capital Transfers for Market Access in China](#),” *Review of Economic Studies* 82: 1154-1193.

Lucas, Robert E. Lucas and Benjamin Moll (2014) “[Knowledge Growth and the Allocation of Time](#)” *Journal of Political Economy* 122: 1-51.

Perla, Jesse and Chris Tonetti (2014), “[Equilibrium Imitation and Growth](#)” *Journal of Political Economy* 122 (1): 52-76.

Manuelli, Rodolfo and Ananth Seshadri (2014), “[Frictionless Technology Diffusion: The Case of Tractors](#),” *American Economic Review* 104: 1368-1391.

Burstein, Ariel and Alexander Monge-Naranjo (2008), “[Foreign Know-How, Firm Control, and the Income of Developing Countries](#),” forthcoming in the *Quarterly Journal of Economics* 124 (February 2009).

Howitt, Peter (2000), “[Endogenous Growth and Cross-Country Income Differences](#),” *American Economic Review* 90 (September): 829-846.

Trade and Growth

Hsieh, Klenow and Nath (2022), “[A Global View of Creative Destruction](#),” R&R at *JPE-Macro*.

Holmes and Stevens (2014) “[An Alternative Theory of the Plant Size Distribution, with Geography and Intra- and International Trade](#)” *Journal of Political Economy* 122: 369-421.

Broda, Christian and David Weinstein (2006), “[Globalization and the Gains from Variety](#)” *Quarterly Journal of Economics* 121, May: 541-585.

Hummels, David and Peter J. Klenow (2005), “The Variety and Quality of a Nation’s Exports,” *American Economic Review* 95 (June) 704-723.

Bernard, Andrew B., Jonathan Eaton, J. Bradford Jensen, and Samuel Kortum (2003), “[Plants and Productivity in International Trade](#),” *American Economic Review* 93 (September): 1268-1290.

Acemoglu, Daron and Jaume Ventura (2002), “[The World Income Distribution](#),” *Quarterly Journal of Economics* 117 (May): 659-694.

Frankel, Jeffrey A. and David Romer (1999), “Does Trade Cause Growth?” *American Economic Review* 89 (June): 379-399.

Romer, Paul M. (1994), “New Goods, Old Theory, and the Welfare Costs of Trade Restrictions,” *Journal of Development Economics* 43 (September): 5-38.

Rivera-Batiz, Luis and Paul M. Romer (1991), “Economic Integration and Endogenous Growth,” *Quarterly Journal of Economics* 106 (May): 531-555.

Growth and Development Accounting

Jones, Charles I. and Peter J. Klenow (2016) "[Beyond GDP: Welfare Across Countries and Time](#)" *American Economic Review* 106, September: 2426:2457.

Feenstra, Robert C., Robert Inklaar and Marcel P. Timmer (2015), "[The Next Generation of the Penn World Table](#)." *American Economic Review*, 105(10): 3150-82.

Caselli, Francesco (2005), "[Accounting for Cross-Country Income Differences](#)," *Handbook of Economic Growth*, P. Aghion and S. Durlauf, eds. (Elsevier Press).

Young, Alwyn (2003), "[Gold into Base Metals: Productivity Growth in the People's Republic of China During the Reform Period](#)." *Journal of Political Economy* 111 (December): 1220-1261.

Jones, Charles I. (2002), "[Sources of U.S. Economic Growth in a World of Ideas](#)," *American Economic Review* 92 (March): 220-239.

Bils, Mark and Peter J. Klenow (2000), "Does Schooling Cause Growth?" *American Economic Review* 90 (December): 1160-1183.

Hall, Robert E. and Charles I. Jones (1999), "Why Do Some Countries Produce So Much More Output per Worker than Others?" *Quarterly Journal of Economics* 114 (February): 83-116.

Klenow, Peter J. and Andrés Rodríguez-Clare (1997), "The Neoclassical Revival in Growth Economics: Has It Gone Too Far?" *NBER Macroeconomics Annual*: 73-102.

Mankiw, N. Gregory, David Romer, and David N. Weil (1992), "A Contribution to the Empirics of Economic Growth," *Quarterly Journal of Economics* 107 (May): 407-437.

Other

Nath, Ishan, Valerie Ramey, and Pete Klenow (2024), "[How Much Will Global Warming Cool Global Growth?](#)" revise and resubmit at the *American Economic Review*.

Akcigit, Ufuk, John Grigsby, Tom Nicholas, and Stefanie Stantcheva (2022) "[Taxation and Innovation in the 20th Century](#)" *Quarterly Journal of Economics* 137: 329-385

Young, Alwyn (2012), "[The African Growth Miracle](#)," *Journal of Political Economy* 120, August: 696-739.

Hsieh, Chang-Tai and Esteban Rossi-Hansberg (2021), "[The Industrial Revolution in Services](#)" R&R at the AER.

Grossman, Gene and Ezra Oberfield (2021), "[The Elusive Explanation for the Declining Labor Share](#)" forthcoming in the Annual Review of Economics.

Acemoglu, Daron and Pascual Restrepo (2020), "[Robots and Jobs: Evidence from US Labor Markets](#)" *Journal of Political Economy* 128, June: 2188-2244.

Koh, Donya, Raul Santaeulàlia-Llopis, and Yu Zheng (2020), "[Labor Share Decline and Intellectual Property Products Capital](#)," *Econometrica*.

Boppert, Timo and Per Krusell (2020), "[Labor Supply in the Past, Present, and Future: A Balanced Growth Perspective](#)," *Journal of Political Economy*.

Aghion, Bergeaud, Boppart, Klenow and Li (2019), “[Missing Growth from Creative Destruction](#),” *American Economic Review*.

Jones, Charles I. and Jihee Kim (2018), ”[A Schumpeterian Model of Top Income Inequality](#)” *Journal of Political Economy*.

Karabarbounis, Loukas and Brent Neiman (2018), “[Accounting for Factorless Income](#)” NBER Macroeconomics Annual.

Jones, Charles I. (2011), ”[Intermediate Goods and Weak Links in the Theory of Economic Development](#)” *American Economic Journal: Macroeconomics* 3:1-28.

Acemoglu, Daron (2009). Chapter 22 on ”Institutions, Political Economy, and Growth” from *Introduction to Modern Economic Growth*. (We do not have an electronic copy of this chapter.) [Acemoglu's slides](#).