

Curriculum Vitae Dr. Arto Kovanen

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Short summary

I am an international expert on macroeconomic policy, analysis, and central banking. This knowledge has been accumulated over a period at the International Monetary Fund (IMF), the Institute of International Finance and the Bank of Finland. I continue to assist the Institute for Capacity Development (ICD) and Monetary and Capital Markets (MCM) Departments of the IMF as a short-term external expert. I have taught microeconomic, macroeconomics and international finance at universities in the United States and Finland. I have written extensively on issues related to monetary policy, financial markets, and institutions. I continue to publish and maintain an active research agenda, which is focused on monetary policy challenges in advanced and emerging market countries. I am the Principal of Kovanen Macroeconomic Policy Advising, LLC, which is a consulting service that is engaged with macroeconomic and monetary policy issues, and financial markets. I have a doctorate in economics from Purdue University.



Main professional strengths

- *Economics*: macro- and monetary economics; central banking; international finance; economics of developing countries; financial and money markets
- *Economic analysis*: quantitative analysis; econometrics; forecasting; statistics; economic research
- *Economic policies*: formulation and implementation; capacity building; technical assistance; liquidity management; monetary policy
- *International expertise*: Asia; Europe; Middle East; Sub-Saharan Africa; developing countries; emerging market countries; familiarity with a diverse set of international counterparties (policy makers, senior management, colleagues, and others) and country/economic circumstances
- *Interpersonal and communication skills*: variety of presentations and teaching engagements; and policy/technical assistance advising and reporting (to a diverse set of audiences)
- *Performance characteristics*: strong working ethics; dependability; self-motivated; management skills (familiarity with working as part of team, and managing diverse teams); well organized, and efficient time management skills

Professional training

- Ph.D., Economics, Purdue University, USA, 1988 (Ph.D. dissertation was titled "Three Essays in International Monetary Economics"; the dissertation committee was chaired by Professor John Carlson and also included Professors Sheng Hu, Jeffrey Lacker, and John Pomery)
- M.Sc., Economics, Purdue University, USA, 1986
- M.Sc., Economics, University of Jyväskylä, Finland, 1984
- M.Sc., Management, University of Jyväskylä, Finland, 1984

Professional appointments (non-academic)

- **Kovanen Macroeconomic Policy Advising, LLC (2013 – ongoing)**
 - Position** *Principal*
 - Contribution** Providing consulting services on macroeconomic, monetary, and financial market policies and development issues to clients, particularly in relation to monetary policy formulation and implementation in emerging market and developing countries; conducting research; lecturing/teaching on these topics.
- **International Monetary Fund (2013 – ongoing)**
 - Position** *Monetary Policy Framework Advisor (short-term external expert)*
 - Department** *Monetary and Capital Markets Department (MCM)*
 - Contribution** Advising central banks on a range of operational issues affecting liquidity management and monetary policy implementation.
- **International Monetary Fund (2013 – ongoing)**
 - Position** *Counselor (short-term external expert)*
 - Department** *Institute for Capacity Development (ICD)*
 - Contribution** Providing training to government and central bank officials on financial programming and policy formulation through lectures and hands-on workshops.
- **Economic Research Forum, Cairo, Egypt (2013 – 2015)**
 - Position** *External Research Advisor (non-resident, external expert)*
 - Contribution** Provided peer-review advice as an external research advisor on a research project dealing with the design of optimal monetary policy framework for resource-dependent Arab countries.
- **UNDP (United Nations Development Programme; 2012 – 2013)**
 - Position** *External Expert/Independent Consultant (non-resident, external expert)*
 - Contribution** Provided peer-review advice to a team of Vietnamese research group on a project, financed by the UNDP, which analyzed the micro determinants of inflation in Vietnam.
- **International Monetary Fund (2009 – 2013)**
 - Position** *Technical Assistance Advisor (most recent staff position)*
 - Department** *Monetary and Capital Markets Department (MCM; 2011 – 2013)*
African Department (AFR; 2009 – 2011)
 - Contribution** At the MCM, managed technical assistance resources and their deliveries to IMF member countries, including leading missions, in areas of expertise of the department (this also involved planning and budgeting of the resources for technical assistance, hiring of external experts, and interacting on technical assistance issues with other departments and member country authorities).
 - Contribution** At the AFR, as a lead senior economist, coordinated country work within the country team for Ghana, related to policy and structural issues, managed database, communicated with country authorities, coordinated work with other departments of the IMF and donor agencies, and prepared drafts briefings, and analytical and policy reports to senior staff and management.
- **Institute of International Finance (2008 – 2009)**
 - Position** *Senior Economist*
 - Department** *European Department*
 - Contribution** Managed economic data, conducted analysis, and prepared reports related to Central European countries (Hungary, Poland, and Romania), conducted policy discussions with policy authorities and financial institutions, and met representatives of offices of commercial and investment banks in key financial centers in Europe.
- **International Monetary Fund (1992 – 2008)**
 - Position** *Senior Economist (most recent staff position)*
 - Department** *African Department (AFR; 2000 – 2008)*
Monetary and Exchange Affairs Department (MAE; 1992 – 2000)
 - Contribution** As a lead senior economist at the AFR for country teams for Angola, Sierra Leone, and Zimbabwe, coordinated surveillance and program activities, conducted policy and

economic analysis for these countries, managed databases, supervised economists, and prepared draft reports to senior staff and management. Collaborated closely with policymakers and other stakeholders on macroeconomic, debt sustainability, and structural policy issues.

Contribution At the MAE, contributed to work activity on a broad range of countries and issues, including several in the European Union and emerging market countries (China, Korea, and Indonesia during the Asian financial crisis), countries in Sub-Saharan Africa and the Middle East, emerging market countries in Central Europe, the Baltics, and the former Soviet republics. Participated as a lecturer in many seminars at the Joint Vienna Institute (JVI), conducted research, and organized and led technical assistance missions to member countries.

- **Bank of Finland (Finland's central bank; 1990 – 1992)**

Position *Economist*

Department *Economics Department*

Contribution Monitored financial market developments in Finland. Participated in Bank of Finland's macroeconomic forecasting activities and conducted relevant research.

Academic appointments

- **Aalto University, School of Science (Espoo, Finland; 2015 - 2017)**

Position *Visiting Lecturer (short-term, contractual)*

Department *Department of Industrial Engineering and Management*

Master's Program in Industrial Engineering and Management

- **Eastern Michigan University, College of Arts and Sciences (1989 – 1990)**

Position *Visiting Assistant Professor*

Member of the Associate Graduate Faculty

Department *Economics Department*

- **Purdue University, Krannert Graduate School of Management (1985 – 1989)**

Position *Visiting Assistant Professor, 1988 – 1989*

Graduate Instructor, 1985 – 1987

Department *Department of Economics*

Research activities

A. Peer-reviewed journal articles

“Wage Growth Puzzle and Capacity Utilization”, 2019, *Applied Economics and Finance*, Vol. 6, No. 2, March, pp. 15 – 31. (<http://aef.redfame.com>)

“Perspectives from the Past for the Federal Reserve's Monetary Policy and Communication”, 2019, *International Journal of Financial Research*, Vol. 10. No. 1, pp. 31 – 51. (<http://ijfr.sciedupress.com>)

“Competing with Bitcoin – Some Policy Considerations for Issuing Digitalized Legal Tenders”, 2019, *International Journal of Financial Research*, Vol. 10, No.4.; pp. 1 – 16. (<http://ijfr.sciedupress.com>)

“Price Variability Under Price Level Stability – A Study of Sierra Leone's Price Dynamics Using Micro Level Price Data”, *IMF Staff Papers*, 54, 4, 2007. (<http://www.imf.org/External/Pubs/FT/staffp/2007/04/pdfs/kovanen.pdf>)

“Indonesia's Banking Crisis: What Happened and What Did We Learn?”, co-authored with Charles Enoch and Olivier Frecaut, *Bulletin of Indonesian Economic Studies*, Vol. 39, 1, pp. 75 – 92, April 2003. (<http://www.tandfonline.com>)

“Incomplete Information, Stabilization, and the Relationship between Inflation and Unemployment”, *Journal of Macroeconomics*, 14, pp. 305 – 19, Spring 1992. (<https://www.sciencedirect.com>)

“The Heterogeneity of Labor, Wage Indexation and Welfare”, *European Economic Review*, 36, pp. 37 – 49, January 1992. (<https://sciencedirect.com>)

B. Working papers

- “Monetary Policy Transmission in Ghana: Does the Interest Rate Channel Work?”, International Monetary Fund, Working Paper, No. 275, November 2011. (<http://www.imf.org/external/pubs/ft/wp/2011/wp11275.pdf>)
- “Does Money Matter for Inflation in Ghana?”, International Monetary Fund, Working Paper, No. 274, November 2011. (<http://www.imf.org/external/pubs/ft/wp/2011/wp11274.pdf>)
- “On the Stability of Money Demand in Ghana: A Bounds Testing Approach”, with Jihad Dagher, International Monetary Fund, Working Paper, No. 273, November 2011. (<http://www.imf.org/external/pubs/ft/wp/2011/wp11273.pdf>)
- “Why Do Prices Change So Often in Sierra Leone? A Case Study Using Micro Level Price Data”, International Monetary Fund, Working Paper, No. 53, February 2006. (<http://www.imf.org/external/pubs/ft/wp/2006/wp0653.pdf>)
- “Zimbabwe – A Quest for a Nominal Anchor”, International Monetary Fund, Working Paper, No. 130, July 2004. (<http://www.imf.org/external/pubs/ft/wp/2004/wp04130.pdf>)
- “Reserve Requirements on Foreign Currency Deposits in Sub-Saharan Africa – Main Features and Policy Implications”, International Monetary Fund, Working Paper, No. 65, April 2002. (<http://www.imf.org/external/pubs/ft/wp/2002/wp0265.pdf>) Also issues in the International Monetary Fund Seminar Series (No. 39/2003).
- “Indonesia: Anatomy of a Banking Crisis: Two Years of Living Dangerously 1997-99”, with Charles Enoch, Barbara Baldwin, and Olivier Frecaut, International Monetary Fund, Working Paper, No. 52, May 2001. (<http://www.imf.org/external/pubs/ft/wp/2001/wp0152.pdf>).
- “Central Banking Without Central Bank Money”, with Alain Ize and Timo Henckel, International Monetary Fund, Working Paper, No. 92, March 1999. (<http://www.imf.org/external/pubs/ft/wp/1999/wp9992.pdf>)
- “Some Issues in the Design of Monetary Instruments for the Operation of European Economic and Monetary Union”, with Charles Enoch and Paul Hilbers, International Monetary Fund, Working Paper, No. 178, 1997. Reprinted in Netherlandsche Bank, reprint series, No. 543, December 1997, pp. 1-23. (<http://www.imf.org/external/pubs/ft/wp/wp97178.pdf>)
- “Capital Account Liberalization in Finland: Analysis of Structural Changes”, International Monetary Fund, Working Paper, No. 131, December 1995.
- “Foreign Exchange Auctions and Fixings: A Review of Performance”, International Monetary Fund, Working Paper, No. 119, September 1994.
- “The Opening of the Currency Loan Window and Its Impact on the Portfolio Allocation of Banks and Households: A Partial Analysis”, Bank of Finland, Economics Department, Working Paper, No. 5, 1990.

C. Discussion papers

- “International Capital Flows in Finland 1975-90: The Role of Expectations”, Bank of Finland, Discussion Paper, No. 5, Economics Department, 1992.
- “International Capital Flows, Deregulation and the Offset Coefficient in Finland 1975-90”, with Timo Hämäläinen, Bank of Finland, Discussion Paper, No. 7, Economics Department, 1991.

D. Other published research

- “The East African Community: Main Themes and Lessons from Financial Sector Assessment Programs for Burundi, Kenya, Rwanda, Tanzania, and Uganda”, International Monetary Fund, 2012 (with a staff team headed by Kal Wajid).
- “Private Capital Flows to Sub-Saharan Africa: Financial Globalization’s Final Frontier?”, Regional Economic Outlook, Sub-Saharan Africa, International Monetary Fund, April 2008, Section III (with John Wakeman-Linn, Corinne Delechat, Inutu Lukonga, Judit Vadasz, Gustavo Ramirez, and Smita Wagh).
- “Macroeconomic Challenges for Africa’s Oil Producers: How to Seize the Opportunities and Avoid the Pitfalls”, Regional Economic Outlook, Sub-Saharan Africa, International Monetary Fund, April 2007, Section III (with a staff team headed by Roger Nord and Dan Chura).
- “Developments in 2006”, Regional Economic Outlook, Sub-Saharan Africa, International Monetary Fund, September 2006, Section II (with Sanjeev Gupta, Ulrich Jacoby, and Kevin Carey).
- “Monetary Operations in the European Economic and Monetary Union”, with Charles Enoch and Paul Hilbers, Finance and Development, International Monetary Fund, June 1998. Reprinted in Netherlandsche Bank, reprint series, No. 569, June 1998, pp. 38-41.
- “Issues in the Design of Monetary Instruments for EMU: Move Toward Resolution”, with Charles Enoch and Paul Hilbers, IMF Survey, International Monetary Fund, February 23, 1998.
- “Establishing Interbank Foreign Exchange Market: Institutional and Operational Modalities”, Monetary and Exchange Affairs Department, Operational Paper, 2, International Monetary Fund, 1996.
- “Capital Account Convertibility, Review of Experiences and Implications for IMF Policies”, with a staff team headed by Peter J. Quirk and Owen Evans, International Monetary Fund, Occasional Papers, No. 131, 1995.
- “Issues in International Exchange and Payments Systems”, with Peter J. Quirk, Hernán Cortés, Kyung-Mo Huh, R. Barry Johnston, Dmitri Menchikov, Hiroshika Nishikawa, Christopher Ryan, and Virgilio Sandoval, International Monetary Fund, April 1995.
- “Recent Economic Developments”, with Martti Lehtonen, Bank of Finland Bulletin, Bank of Finland, November 1991.
- “The Short-Run Phillips Curve with Monopoly Unions: A Critical Reformulation”, Institute for Research in Behavioral, Economics, and Management Sciences, 952, Purdue University, USA, 1988.

E. Other completed research

- “Will the Libra Become a Supranational Currency – Some Thoughts?”, manuscript, 2019, , available at www.academia.edu (<https://independent.academia.edu/ArtoKovanen>)
- “A Note of Caution About the Fed’s Policy Tightening”, manuscript, 2017, available at www.academia.edu (<https://independent.academia.edu/ArtoKovanen>)
- “Should the Federal Reserve Worry About the Size of Its Balance Sheet?”, manuscript, 2017, available at www.academia.edu (<https://independent.academia.edu/ArtoKovanen>)
- “Is the Federal Reserve Becoming “Less Patient” With Monetary Policy?”, manuscript, 2015, available at www.academia.edu (<https://independent.academia.edu/ArtoKovanen>)
- “When Should the Fed Begin Monetary Policy Tightening?”, manuscript, 2014, available at www.academia.edu (<https://independent.academia.edu/ArtoKovanen>)
- “Monopolistic Competition, Commodity Price Arbitrage, and Exchange Rate Overshooting”, unpublished, 1991.

- “Price Uncertainty and the Nature of Protection”, unpublished, 1989.
 “The Causes of Persistent Unemployment: Membership Rules and Unemployment Elasticity”, unpublished, 1989.
 “Wage Indexation in Open Economies”, unpublished, 1986.

Academic teaching experience (list of courses)

- **Aalto University (Espoo, Finland)**
Master’s Program in Industrial Engineering and Management: Managerial economics
- **Eastern Michigan University (Ypsilanti, Michigan, USA)**
Undergraduate: Principles of micro- and macroeconomics courses
Graduate: Micro- and macroeconomic, and international trade
- **Purdue University (West Lafayette, Indiana, USA)**
Undergraduate: Principles of micro- and macroeconomics (as a graduate instructor),
 Intermediate international economics (as a visiting assistant professor)

Participation in selected professional meetings, seminars, and workshops

- Conference on “Monetary Policy in Developing Countries: Practice and Challenges”, organized by the Central Bank of Rwanda in Kigali, Rwanda during July 2012. Presented a paper covering the operational building blocks for moving towards inflation targeting and participated in a round table discussion on this topic.
- Woodrow Wilson School of Public and International Affairs, Princeton University, November 2009. Presented a paper titled "Ghana–Inflation Dynamics and Monetary Policy".
- Seminar on the “Fundamental Determinants of Angola’s Real Exchange Rate”, Luanda, Angola, June 2007 (lecturer).
- Workshop titled “Inside – Out: the Sierra Leone Experience With Post conflict State Restoration”, Graduate Center, City University of New York, November 2005 (discussant).
- Consultative Group Meeting on Sierra Leone, London, England, November 2005 (part of the staff delegation from the International Monetary Fund).
- Workshop on Monetary Operations, Joint Vienna Institute, International Monetary Fund, Vienna, Austria, September 1999 (coordinator and lecturer).
- Workshop on Payment and Government Securities Clearance and Settlement, Federal Reserve Bank of New York, April 1999 (participant).
- Seminar on Issues Related to the Reforms in the Foreign Exchange Markets and the Establishment of An Interbank Foreign Exchange Market, MAE/IMF Institute Seminar, International Monetary Fund, Washington, November 1996 (lecturer).
- Workshop on Foreign Exchange Auctions, Central Bank of Turkmenistan, Ashgabat, Turkmenistan, May, 1996 (lecturer).
- Workshop on Reforming Foreign Exchange Markets, Joint Vienna Institute, Vienna, Austria, October 1995 (assistant coordinator and lecturer).
- Workshop on Exchange Rate Determination and Adjustment, Joint Vienna Institute, Vienna, Austria, May 1995 (lecturer).
- Southern Economic Association Meetings, Nashville, November 1991. Presented a paper titled “Monopolistic Competition, Commodity Price Arbitrage, and Exchange Rate Overshooting.”
- Southern Economic Association Meetings, Orlando, Florida, November 1989. Presented a paper titled “The Causes of Persistent Unemployment: Membership Rules and Unemployment Elasticity.”

Service to economics profession: I have reviewed articles for *Journal of Macroeconomics*, *Journal of International Trade and Economic Development*, and *African Development Review*.

Computer skills: Apple and Windows (Word, Excel, PowerPoint) and various econometric software packages.

Professional networks: Academia (<https://independent.academia.edu/ArtoKovanen>) and LinkedIn (<https://www.linkedin.com/pub/arto-kovanen/22/25a/1a4>).

Professional references:

1. Professor Emeritus, Sharon Erenburg
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