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French Citizen, Female

1. CURRENT EMPLOYMENT / INSTITUTIONAL AFFILIATION

- **Senior Consultant (STC) with International Organizations, Applied Economics** (chronological list of contracts in Section 5)
- **Research Associate**, Department of Economics, Oberlin College (non-service affiliation)

2. EDUCATION

- **Ph.D., Economics, Rice University (USA), 2000.**
Thesis: Hultberg, Sylvestre Gaudin: “*Inter-Temporal and Spatial Choice between Ground and Surface Water in Municipalities with Land Subsidence*”; Prix W. Gardner, Rice University, 2000. (<http://hdl.handle.net/1911/19511>) “award for best and most original dissertation in the Humanities and Social Sciences”.
- “**Qualification**” - **Maître de Conférences**. Habilitation to teach and direct Ph.D. Research, French National Council of Universities (CNU) section 05: Economics, 2012.
- **M.A. Economics, Bowling Green State University (USA), 1990.**
Thesis: “*The International Monetary Fund’s Conditionality and its Implications in Stabilization, Adjustment, and Economic Development*”.
- **Maîtrise, Langues Etrangères Appliquées** (Applied Foreign Languages), University of Paris-Sorbonne, Paris IV (France), 1985 (Licence 1984, D.E.U.G., 1983). Practical Internship : Paris Stock Exchange, financial analysis and secondary market transaction, May-June 1985

3. LANGUAGES

Fluent French and English. Advanced Spanish. Intermediate Portuguese (read/write); Conversational Greek

4. RESEARCH AND TEACHING COMPETENCIES

- **Research**
 - **Empirical microeconomics applied to social and demographic issues**, in particular those related to the demand for public goods and services (health, environment/natural resources, education) and to inequalities (income, gender, ethnic, and regional inequalities).
 - **Specific econometric skills**: cross-sectional survey data analysis (Demographic and Health Surveys); panel data methods (random effects); discrete dependant variable methods; multilevel methods (nested), instrumental variables. Have worked with publically available data sets as well as with self-collected primary data (both natural data using survey instruments and experimental data).
 - **Research in progress**: 1/Using Public Expenditure Reviews to identify dominant health policy issues in low and middle income countries (Revised and resubmitted, Health Systems and Reform) 2/Two-dimensional analysis of relative efficiency of public expenditure in Education and Health 3/Using childhood immunization data from the Indian National Family and Health Surveys to assess the extent to which son-preference translates into *de facto* daughter neglect.
 - **List of refereed publications at the end of the CV** (section 9)

➤ **Teaching:**

- Field Courses: (x-times taught, L-level). Natural Resources Economics (x5, L3-4); Environmental Economics (x5, L2); Senior Seminar in Water Resource Economics (x2, L4+); Economic Development (x2, L3); Senior Seminar in Environmental and Resource Economics (x1, L4+); Urban Economics (x1, L3); Comparative Economic Systems (x1, L2).
- General Courses: Principles of Microeconomics, Principles of Macroeconomics or Principles of Economics (x25, L1). Intermediate Microeconomics (x2, L2);

5. EMPLOYMENT HISTORY: CONSULTANCIES, INTERNATIONAL ORGANIZATIONS

- **06/2018 – 09/2019:** World Health Organization. **Knowledge program on “Financing Commons Goods for Health”**. Background research and co-writing of two articles for a special issue of the Health System and Research Journal sponsored by WHO. The first article: “Common Goods for Health: Economic Rationale and Tools for prioritization” reviews the economic arguments for public financing of Common Goods for Health (CGH) based on market failures and cost effectiveness. Main own contribution: economic rationale; modified Musgrove decision tree; analysis of the list of cost-effective interventions in 2018 edition of Disease Control Priorities (DCP-3). The second article: “The Case for Public Financing of Environmental Common Goods for Health” shows that protecting the environment is essential to current and future health outcomes and that governments have a major role to play in environmental protection financing and outcomes. Own contribution: review of CGH features of environmental protection; all empirical analyses using panel data and instrumental variable methods (complete writing of the exploratory analysis section and Appendix 1). Extensive data work on the 2018 Environmental Protection Index (EPI); factor analysis of country-level Governance and Politics variables (WGI and Polity IV).
- **11/2017-06/2018:** World Bank. **Tunisia Public Expenditure Review (PER), Health. Lead researcher.** Full responsibility for the health-sector background paper. Included both efficiency and equity analysis with cross-country comparisons and within country distributional issues relative to expenditures, health inputs and outputs
- **01/2017-11/2017:** World Bank. **Kyrgyz Republic-Fiscal Space for Health. Principal researcher.** Identified and quantified potential to increase public resources for the health sector, including potential savings from efficiency gains (efficiency analysis) in resource allocation and production of health. Exploratory mission, Bishkek, April 2017. Full analysis and sole author of background paper: “*Fiscal Space Analysis for Health, Kyrgyz Republic*”, 129 pp + Annex, Oct. 2017.
- **05/2016-12/2016:** World Bank. **Seychelles Health Sector - Costing.** Provided technical assistance and training to 1/ develop costing tool and estimate the costs of implementing the five year National Health Strategic Plan (NHSP); 2/develop costing tool to assess relative efficiency of health facilities 3/ develop/implement shadow billing. TA mission, Mahe, June 2016.
- **12/2015-05/2016:** World Bank. **Zimbabwe Health Sector Technical Assistance.** Provided guidance in the development of the National Health Financing Policy, National Health Accounts, National Health Strategy, and health modules for the 2017 PICES (expenditure survey). Missions to Harare: 1-10 Feb: (multiple outputs) and 11-17 Apr. (TA support for development of the Health Financing Policy).
- **02/2015-02/2017:** World Bank. **Mozambique Education PER. Lead researcher.** Developed the Boost Education Module with economic and functional re-classifications of education expenditure. Relative efficiency analysis (using international data), input balance (including role of labor in the production of education), and allocative efficiency based on national and province-level data. Analytical support/quality control for the section on equity, Benefit Incidence Analysis. Write-up of the main background paper and methodology notes. Preparatory mission, Maputo, April 2016.
- **03/2015-05/2015:** World Bank. **Zimbabwe Policy Brief, section on Public Expenditure in Health**
- **04/2014-02/2015:** World Bank. **Zimbabwe Health PER.** Provided support to strengthen the quality of the analysis and presentation of the PER in all stages of the process. Conducted efficiency analysis of public expenditure. Mission to Harare: Oct 26-Nov 04 2014: Dissemination of PER results, multiple

presentations to government and partners; designed and conducted a full-day capacity building workshop on PER tools; contributed expertise to Program-Based Budgeting workshop to design the health sector budget structure.

- **11/2013-03/2015:** World Bank. **Madagascar PER on Education, Health, and Nutrition. Lead researcher.** Main author of two background papers including efficiency and equity analyses for the health and education sectors (released, World Bank 2015). Provided technical input to UNICEF in the development of case studies for the health and nutrition sector. Multiple missions to Antananarivo (Dec 2013, Apr-May 2014, Aug/Sept 2014, and March 2015): prepared and conducted four capacity-building workshops, including presentation of preliminary and final PER results plus interactive capacity-building components with representatives of the Ministries (Finance, Education, Health, Office of Nutrition) in coordination with UNICEF.
- **02/2013-11/2013:** World Bank. **Seychelles health sector PER.** Verified, corrected, and reconciled five years of health expenditure data and prepared the database for analysis. Designed a guide to sort the Seychelles health data into economic and functional classifications with focus on time consistency, future applicability, and international comparability. Described functional and economic distributions of expenditures for efficiency analysis; computed disease specific age-standardized mortality rates and analyzed burden of disease. Worked with Ministries of Finance and Health to improve the management of expenditure data and to reduce duplication of tasks (TA Mission to Seychelles Oct 2014).
- **02/2013-06/2013:** World Bank. **Review of PERs and Health Sector Reports for Africa**
 - Output 1: **“A Systematic review of Africa Health Sector Reports (CSR/HNP): 2002-2012”** (15pp) Contributed to the development of a reading questionnaire along the following dimensions: Health Nutrition and Population (HNP) outcomes, delivery of critical HNP services, description of aggregate health expenditures and financing, health expenditure analysis (allocative and technical efficiency, inequality), payment and risk pooling mechanisms, and governance and stewardship issues.
 - Output 2: **“Health Sector Policy and Analysis: Learning from Ten Years of PERs in Africa”.** (35pp) Identified dominant health policy themes in African PERs, comparing them to other regions and extracting health policy implications and advice for Africa; reviewed expenditure-based analytical work presenting best practice examples from the African PER subsample; proposed an outline for an ideal health PER for African countries.
- **03/2011 to 06/2013:** World Bank. **Learning from Public Expenditure Reviews (PER) and Poverty Assessments (PA).** Created questionnaires to summarize health sector information from PERs and PAs published since 2000. Created a database with quantitative and qualitative information on (a) the use of expenditure data in describing and assessing health systems (technical and allocative efficiency, equity), (b) the types of health policy recommendations, and (c) the effect of health/the health sector on the broader economy. Extracted best practice tools. Output:
 - Output 1: **“National Health Accounts in Decision Making: Insights from World Bank’s Public Expenditure Reviews”** identified advantages of using National Health Accounts (NHA) in PERs with main objective to contribute to removing barriers to institutionalizing NHA in middle and low-income countries. (completed 11/ 2011)
 - Output 2: **“Health Sector Policy Challenges in Low and Middle Income Countries: Learning from Public Expenditure Reviews.”** in collaboration with Abdo Yazbeck. In addition to reviewing the type of information provided in PERs, the review includes a qualitative assessment of policy recommendations and a large section on tools for distributional analysis in health using examples from PERs. Final draft revision 07/2013.
- **2007- 8:** World Bank. **Reaching the poor in health.** Construction of an **Indian States Equality-Adjusted Health Achievement Index.** Measured health service utilization and health outcomes by income group and determined sources of income gradients in health and ways to reduce inequalities. Created inequality-adjusted health achievement indices based on multiple dimensions of health outreach and outcomes from survey data to evaluate relative performance of Indian states. Compared rankings obtained from a fixed weight method and principal components analysis. Output: report available at

http://www.oberlin.edu/faculty/sgaudin/research/ISHAI_081112.pdf

- **2003-5:** World Bank. *Reaching the Poor in Health*. Created household wealth quintiles based on principal components analysis of household level asset data from the 1998-99 National Family and Health Survey of India; calculated and analyzed childhood immunization rates and inequality achievement indices by state, gender and wealth quintiles. Output: Data set and summary tables/graphs. The work led to the publication in 2006 of: ***“Immunization in India: An Equity-Adjusted Assessment”*** HNP Discussion Papers, March 2006. Washington DC: The World Bank.
- **1995 (Jul.-Sept.):** World Bank - Assessment of the **Brazilian macroeconomic performance** post Plano Real: comparisons with other Latin American stabilization experiences.
- **1993-1994** (12 months, full time, World Bank headquarters): **Brazil Country Economic Memorandum**. Reviewed the characteristics and effects of Brazilian fiscal, monetary, and exchange rate policies since 1983; estimated inflation-related foregone growth; forecasted effects of exchange rate-based stabilization on Brazilian balance of payments. Output: ***“Brazil, an Agenda for Stabilization”*** with Gautam Datta (lead) and Feliciano Iglesias. World Bank Report No13168BR. October 1994. Washington D.C.: The World Bank.

6. EMPLOYMENT HISTORY: ACADEMIC INSTITUTIONS

- **2001-2007.** Oberlin College, Assistant Professor of Economics and Environmental Studies. Teaching and student advising, research, and service to two departments (economics and environmental studies) and to the College and Community. Taught 5 courses each year plus individual private reading courses (2-3) and a year-long economics honors seminar (co-taught). Directed students individually on honors theses. Took a one-year leave in 2004-2005 and a leave of absence in Fall 2006 for research:
 - Sept-Dec. 2004: Lawrence Berkeley National Laboratory, Berkeley, CA : Visiting researcher, End Use Forecasting group, Environmental Energy and Technology Division (EETD), Water Energy Technology Team.
 - Jan-Jun 2005 and Oct-Dec. 2006: University of Maryland. Visiting scholar, Agricultural and Resource Economics Dept. (AREC)
- **2000-2001.** University of Wyoming. Adjunct Asst. Prof. of Economics. Teaching: 5 semester courses
- **1999-2000.** Ohio Wesleyan University. Asst. Prof. of Economics. Teaching: 6 semester courses.
- **1998-1999.** University of Wyoming – Instructor. 2 semester courses.
- **1995-1998.** Rice University. Instructor. 5 sections of microeconomics principles.
- **1985-1986.** Hiram College, Ohio. Teaching assistant – French language

7. EMPLOYMENT HISTORY: OTHER

- **1986-89: Semiac Industries, Paris, France:** Financial Assistant to the CEO. Prepared feasibility studies for mergers/acquisitions. Responsible for accounting, payroll, tax reporting and preparations for tax auditing for newly acquired businesses; prepared background data/briefs for legal proceedings.

8. ACADEMIC & PROFESSIONAL ACTIVITIES

- **Scientific committees (ongoing):**
 - **World Health Organization:** Technical Expert Group (TEG) on Financing Common Goods for Health- (ongoing);
- **Academic Services (selected)**
 - Founding member of the Oberlin College **Environmental and Policy Advisory Committee** (2001-2006). Worked weekly in an interdisciplinary team (faculty in biology, history, political

science, environmental science, geology, and physics; a member of physical plant, and the institution's financial officer) to draft the Environmental Policy guidelines for Oberlin College and later work on implementation, suggesting and assessing different proposals.

- Member of **hiring committees** for junior and senior faculty in Economics and Environmental Studies (2001-7), and for the Oberlin College's Environmental Coordinator (2007).

➤ **Research Services**

- Reviewer for (ongoing): *Environmental & Resource Economics*; *BMJ-GlobalHealth*; *Population & Environment*; *Asian Population Studies*; *Population Research and Policy Review*; *Population; Health Policy and Planning*; *Social Science and Medicine*; *Applied Economics*, *Journal of Applied Economics*, *Land Economics*, *Journal of Agricultural and Resource Economics*, *Resource and Energy Economics*, *Journal of the American Water Resources Association*, *Journal of Economic Education*, *International Journal of Manpower*, *Urban Studies*, *Journal of African Economies*, *Water Resources Research*; Wiley-Blackwell Pubs (Development Economics), Stanford University Press.
- *International Water Association, Economics and Statistics group*, scientific committee, 2009.

9. PUBLICATIONS IN REFEREED JOURNALS

Lo S, Gaudin S, Corvalan C, Earle A, Hanssen O, Prüss-Ustun A, Neira M, Soucat, A. (2019). « The Case for Public Financing of Environmental Common Goods for Health. ». *Health System and Reform* 5(4): 366-381 [Open Access]

Gaudin S, Smith P, Soucat A, Yazbeck AS (2019) « Common Goods for Health: economic rationale and tools for prioritization ». *Health System and Reform* 5(4): 280-292 [Open Access]

Gaudin S. (2011). « Son-Preference in Indian Families: Absolute Versus Relative Wealth Effects » *Demography* 48(1), pp. 343-370 [Econlit]

Gaudin, S. and Yazbeck A. (2006). « Immunization in India 1993-1999: Wealth, Gender, and Regional Inequalities Revisited ». *Social Science and Medicine*, 62(3), pp. 694-706 [SocIndex]

Gaudin S. (2006). « Effect of Price Information on Residential Water Demand » *Applied Economics* 38(4), pp. 383-93 [Econlit]

Gaudin S. (2005). « Using Water Bills to Reinforce Price Signals: Evidence from the US ». *Water Science and Technology/Water Supply* 5(6), pp. 163-171 [Environment Complete]

Gaudin S, Griffin R. and Sickles R. (2001) « Demand Specification for Municipal Water Management: Evaluation of the Stone-Geary Form ». *Land Economics*, 77 (3), pp. 399-422 [Econlit]