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## Curriculum Vitae (CV)

1. **NAME** **Jacob Bower-Bir, Ph.D.**
2. **POSITION** Quantitative Social Research Expert; Governance and Public Policy
3. **EMPLOYER** Lecturer; Assistant Professor; Senior Consultant  
Massachusetts Institute of Technology; GK Consulting, LLC
4. **DATE OF BIRTH** 2 November 1985
5. **EDUCATION** 
  - **PhD**, Joint program in the School of Public and Environmental Affairs and the Department of Political Science, Indiana University, Bloomington, IN, USA (2007-2014), with substantive focus on Public Policy, American Politics, Public Management, and Quantitative Methodologies. Dissertation: "What We Deserve: The Moral Origins of Economic Inequality and Our Policy Responses to It". Designed and executed laboratory/online economic experiments and large-N survey with built-in survey experiments. Dissertation Chairs: Elinor Ostrom and Edward Carmines
  - **BA**, Indiana University, Bloomington, IN, USA (2004-2007) Majors: Political Science (departmental honors), Economics, History. Minor: Near-Eastern Languages and Cultures. General honors notation and summa cum laude. Honors Thesis: "When Schools Compete: Charter Schools and Their Effect on Traditional Public Education."
6. **MEMBERSHIP OF PROFESSIONAL SOCIETIES** 
  - American Political Science Association
  - Midwest Political Science Association
7. **OTHER TRAINING** 
  - International House, Cairo International Language Institute (2018), certification in Egyptian Colloquial Arabic, CEFR level B1
  - Johns Hopkins University on Coursera (2017-18), certifications in (i) R Programming, (ii) Getting and Cleaning Data, (iii) Exploratory Data Analysis, and (iv) Reproducible Research
  - Interuniversity Consortium for Political and Social Research (2009), certifications in (i) Maximum Likelihood Estimation for Generalized Linear Models and (ii) Rational Choice Theories
  - Indiana University Political Science Teaching Colloquium (2010-11)
8. **COUNTRIES OF WORK EXPERIENCE** Field: Egypt, Kenya, Liberia, Papua New Guinea; Desk: Northern Nigeria, Myanmar/Burma
9. **LANGUAGE & DEGREE OF PROFICIENCY**

	<b>Speaking</b>	<b>Reading</b>	<b>Writing</b>
English		Mother tongue	
Spanish	Elementary	Elementary	Elementary
Arabic	Intermediate	Intermediate	Intermediate
10. **EMPLOYMENT RECORD**

<b>FROM–TO</b>	
<b>EMPLOYER</b>	<b>2016 – present</b>
<b>POSITION HELD</b>	American University in Cairo, School of Global Affairs and Public Policy Assistant Professor
<b>DESCRIPTION OF DUTIES</b>	Conduct cutting edge research in political science and public policy, and teach courses on social science methodology, program evaluation, energy policy, development, and statistics.
	<b>2014 – present</b>
	GK Consulting Senior Consultant
	Lead consultant for all quantitative evaluation and governance work conducted in GK Consulting projects. Work includes designing methodology (experimental and quasi-experimental), overseeing data collection (managing large local field teams), and conducting advanced statistical analysis (expertise in STATA and R). Also providing inputs as needed on matters of governance, legislative and constitutional reform, civic participation, economic inequality, and education policy.

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**2016**

Boston University, Metropolitan College

Lecturer

Instructor of political science and philosophy courses for college students incarcerated in Massachusetts state prisons.

**2015**

Massachusetts Institute of Technology, Political Science Department

Lecturer

Instructor of political science and public policy courses, cross-listed with the Department of Urban Studies and Planning.

**2005 – 2014**

Indiana University Bloomington and IUPUI

University Instructor

Design and teach courses to graduate and undergraduate student in the Department of Political Science and the School of Public and Environmental Affairs. Courses independently taught include graduate-level statistics, the politics of environmental and economic sustainability, and the American presidency. Courses taught as an associate instructor include microeconomics, social science research methodologies, the politics of gender and sexuality, and the politics of genocide and political violence.

**2007 – present**

Indiana University Bloomington

Research Assistant

Theory building and data analysis with advanced faculty on a variety of research projects.

**2007**

Liberian Collections Project

Research Assistant

Assist Liberian Governance Commission with land reform initiative and assist Hague researchers with archival analysis of Charles Taylor's rule.

**11. DETAILED TASKS ASSIGNED**

Design and implement representative survey, and analyze subsequent data on gender issues / VAWG

Train and provide on-the-ground QA of local field teams in the collection of quantitative data using electronic tablets, and in the collection of qualitative data through elite interviews and focus groups

Conducting interviews with senior staff, government and market officials; police

Design and implement representative survey, and analyze subsequent data on gender issues / women's' economic empowerment and skills

Train local field teams in the collection of quantitative data using electronic tablets, and in the collection of qualitative data through elite interviews and focus groups

Advising ongoing M&E processes for RCT on girls' education

**12. WORK UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE THE TASKS ASSIGNED (selected)**

**Year:** March 2015 – November 2015

**Location:** Papua New Guinea

**Client:** GK Consulting for UNWOMEN Papua New Guinea

**Position Held:** Senior Field Researcher / Quantitative Lead

**Activities Performed:** Responsible for creation and revisions of survey instrument and sampling framework for 800-person study on violence against women and girls / market safety across three markets and public transportation system in Port Moresby. Trained field teams in administration of quantitative survey using electronic tablets, and in the execution of long-format qualitative methods such as elite interviews and focus groups. Monitored fieldwork for duration of data collection, conducting own higher-level interviews. Analyzed quantitative data (including running regressions) provided inputs to qualitative data, and assisted in writing reports.

**Year:** December 2014 – February 2015

**Location:** Liberia

**Client:** GK Consulting for UNWOMEN Liberia

**Position Held:** Quantitative Analyst and Field Team Trainer

**Activities Performed:** Assist in creation of survey instrument and sampling framework for 1000-person survey across five counties. Train field teams in administration of quantitative survey using electronic tablet, and in the execution of long-format qualitative methods such as elite interviews and focus groups. Monitor field and advise field collection of data. Analyze data and assist in writing the final report.

**Year:** November 2014 – January 2015

**Location:** Home-based / Northern Nigeria

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Identify barriers to statistical rigor and propose actionable improvements to future sampling strategies	<p><b>Client:</b> DFID / PWC / Coffey / Coca Cola Corp , ENGINE Nigeria  <b>Position Held:</b> Senior Technical Advisor  <b>Activities Performed:</b> Evaluate previous monitoring and evaluation of the ENGINE Nigeria project. Identify and correct data errors and analyze available data. Critique sampling strategy, identify obstacles to generalizability of sample, and propose alternative sampling strategies for future monitoring and evaluation, revising surveys and field methodologies.</p>
Advising high-level government officials on issues of democratic governance and citizen participation	<p><b>Year:</b> May 2009 – July 2009  <b>Location:</b> Liberia  <b>Client:</b> Liberian Governance Commission  <b>Position Held:</b> Research Associate</p>
Liaising with international donors on aid projects targeting corruption, capacity building, and post-conflict reconciliation	<p><b>Activities Performed:</b> Counsel senior members of the Liberian Governance Commission and administration on matters of democratic governance in a post-conflict society. On-site meetings with project leaders in rural communities. Liaising with international donors (e.g., Soros Foundation and Millennium Challenge Corporation) and advising them and beneficiaries on multi-million dollar development projects aimed at local capacity building, post-conflict reconciliation, and government corruption.</p>
Interview community leaders about previous conflicts on potential for resurgent conflict	<p><b>Project Name:</b> Kenyan Election Conflict  <b>Year:</b> June 2012 - August 2012  <b>Location:</b> Eldoret, Kenya</p>
Assess violence-prevention measures	<p><b>Main project features:</b> Ascertain primary sources of tension leading up to and following civil unrest during Kenya's national elections  <b>Position Held:</b> Researcher  <b>Activities Performed:</b> Interview community leaders in areas of Kenya most effected by previous post-election violence and gauge ongoing initiatives meant to prevent or lessen the outbreak of similar violence in the coming elections.</p>
Research and offer recommendations regarding educational guarantees in the constitutional draft	<p><b>Project Name:</b> Burmese Federal Constitution Drafting and Consulting Committee  <b>Year:</b> January 2008 – May 2008  <b>Location:</b> Home-based  <b>Client:</b> Center for Constitutional Democracy in Plural Societies  <b>Main project features:</b> With the aid of legal scholars, committee members met to draft a document meant to one day serve as the basis for a Constitution of the Federal Union of Burma.  <b>Position Held:</b> Research Assistant  <b>Activities Performed:</b> Summarize the history of formal education in Burma, assess competing educational guarantees in the draft Burmese Constitution, conduct a trans-geographic and trans-historical survey of similar constitutional guarantees, and educate committee members on the economic, political, and philosophical tenets of different educational systems.</p>
Archival research on executive authority over federal land	<p><b>Project Name:</b> Preserving Liberian Deeds Registry  <b>Year:</b> May 2007 – January 2008  <b>Location:</b> Home-based</p>
Recommendation on legal and social consequences of land reform initiatives	<p><b>Client:</b> Liberian Collections Project  <b>Main project features:</b> Collect, organize, and digitize Liberian land records following years of civil war.  <b>Position Held:</b> Research Assistant  <b>Activities Performed:</b> Archival research on the Liberian president's executive prerogative to allocate and gift federal land. Recommendation on potential legal and social disputes likely to arise from proposed land reform policies.</p>
Investigate cross-national, inter-agency cooperation using discourse analysis and decision-making theories	<p><b>Project Name:</b> Behavioral Underpinnings of U.S.-Russian Cooperation in International Space Station Operations  <b>Year:</b> April 2013 – September 2013  <b>Location:</b> Home-based  <b>Client:</b> Academic research project  <b>Main project features:</b> Investigate the theoretical and operational differences in NASA and Roscosmos decision-making procedures.  <b>Position Held:</b> Research Assistant</p>

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	<p><b>Activities Performed:</b> Coding and discourse analysis of communications between officials from the Mission Control centers of the U.S. National Aeronautics and Space Administration (NASA) and the Russian Federal Space Agency (Roscosmos).</p>
Predict legislative and policy outcomes using spatial models of social choice	<p><b>Project Name:</b> Predicting Majority Rule Outcomes  <b>Year:</b> August 2007 – September 2013  <b>Location:</b> Home-based  <b>Client:</b> Academic research project  <b>Main project features:</b> Apply the theoretical concept of the Uncovered Set to laboratory and real-world legislatures as a predictor of policy outcomes.  <b>Position Held:</b> Research Assistant, Co-author  <b>Activities Performed:</b> Analyze legislative data from multiple North America and Eastern and Western European nations using cutting-edge modeling techniques of legislative behavior. Develop methodologies for comparing different majority rule prediction techniques. Co-author an academic article testing the merits of competing tools for majority rule prediction.</p>
Cross-national, quantitative comparison of legislative systems and behavior	
Recommendation on the privatization of major public assets	<p><b>Project Name:</b> Committee on the Monetization and Privatization of University Parking Operations  <b>Year:</b> May 2012 – December 2013  <b>Location:</b> Home-based  <b>Client:</b> Indiana University  <b>Main project features:</b> Recommend to the President and Trustees of Indiana University whether parking facilities should be monetized, whether parking operation should be privatized, and—in the event of neither—how the university might lessen predicted budget constraints.  <b>Position Held:</b> Committee Member  <b>Activities Performed:</b> Help evaluate the findings of third party financial advisors (Goldman Sachs) regarding the multi-decade, multi-million dollar lease of Indiana University parking facilities, and the privatization of university parking operations. Help direct and evaluate a competing financial analysis undertaken by the Indiana University Treasurer. Advise fellow committee members on the economic and environmental aspects of parking monetization and privatization. Liaise with community and university stakeholders, and convey their concerns to fellow committee members. Help retain a third party transportation advisor and evaluate their transportation demand management study. Investigate parking operations and facilities at peer institutions. Work with fellow committee members to design alternative management of parking assets so as to retain their public character, generate increased revenue, and lessen their adverse impact on social and economic sustainability.</p>
Analysis of long-term budgeting forecasts	
Address and convey stakeholder input	
Communicate to stakeholders all findings and recommendations	
Investigate similar operations at peer institutions	
Provide detailed, high-resolution economic forecasts for multiple sectors	<p><b>Project Name:</b> Scalable Energy-Economy Model for Regional and Sub-Regional Analysis  <b>Year:</b> May 2013 – present  <b>Location:</b> Home-based  <b>Client:</b> Academic research project with occasional private clients  <b>Main project features:</b> Develop and implement an innovative econometric approach for modeling (i) how national or state energy policies affect state and sub-state economic outcomes, and (ii) how economic response affects the performance of energy policies.  <b>Position Held:</b> Research Assistant, Co-author  <b>Activities Performed:</b> Assist in the collection and preparation of multi-year, multi-sector data for analysis. Generate and evaluate models showing the interplay of economic sector performance and energy consumption and policy. Work with a team of researchers to integrate sub-state, sub-sector models into a larger model of state and regional economic and energy performance. Forecast future economic performance and energy consumption and predict the effects of specific government policies (e.g., carbon tax) on those variables. Assist in the writing of theoretical, methodological, and empirical findings. Help disseminate findings to state economic forecasters and private energy providers.</p>
Provide detailed energy cost and consumption forecasts	
Execute and troubleshoot data analysis on high-performance computing systems	
Liaise with and energy providers and state economic forecasters	

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<p>Application of economic theory to school reform policies</p> <p>Quantitative analysis of student performance across a range of school types while controlling for student demographics</p> <p>Qualitative research into the legislative history and bureaucratic management of charter schools</p>	<p><b>Project Name:</b> When Schools Compete: Charter Schools and Their Effects on Traditional Public Education</p> <p><b>Year:</b> August 2006 – May 2007</p> <p><b>Location:</b> Home-based</p> <p><b>Client:</b> Academic research; Indianapolis Public Schools</p> <p><b>Main project features:</b> Broadly evaluate the effects on charter school reforms on the traditional public education system, and specifically assess the ability of Indianapolis charter schools to educate minority and economically disadvantaged students.</p> <p><b>Position Held:</b> Author</p> <p><b>Activities Performed:</b> Conducted semi-structured interviews with Indiana and Georgia legislators who championed and opposed charter reform. Conducted semi-structured interviews with Indianapolis and Atlanta educators and government officials actively working on charter reform. Applied economic and social theory to explain the rise of the charter movement and to predict its trajectory and the influence it is likely to have on the traditional public school system and its students. Collected and analyzed student performance data to evaluate common but heretofore unanalyzed hypotheses about the relative ability of charter and traditional public schools to educate students. Reported findings to state legislators, public school officials, and community stakeholders.</p>
<p>Coordinate volunteers in petition campaign</p> <p>Devise and implement electronic voting program and procedures</p> <p>Liaise with city and university administrators</p> <p>Design capital works projects meant to improve campus environmental sustainability</p>	<p><b>Project Name:</b> Student Sustainability Fund</p> <p><b>Year:</b> 2010 – 2011</p> <p><b>Location:</b> Home-based</p> <p><b>Client:</b> Student Sustainability Council, Indiana University Student Association, Graduate and Professional Student Organization, Campus Sustainability Advisory Board</p> <p><b>Main project features:</b> Create a voluntary fund, overseen by university student representatives, that will pay for capital works projects meant to reduce human impact on the environment</p> <p><b>Position Held:</b> Logistics Chair</p> <p><b>Activities Performed:</b> Manage student volunteers collecting 10,000 student signatures in petition for the creation of a voluntary sustainability fund. Liaise with community stakeholders and university administration. Work with university information technology staff to develop and implement an electronic voting system. Work with university architects, engineers, and physical plant to identify and develop capital works projects meant to reduce university waste and carbon emissions.</p>
<p>Experimental and survey research into the emergence of democratic institutions</p>	<p><b>Project Name:</b> Political Economy of Democratic Sustainability</p> <p><b>Year:</b> 2009 – 2011</p> <p><b>Location:</b> Home-based</p> <p><b>Client:</b> Academic Research</p> <p><b>Main project features:</b> Study, using political economic theories and methodologies, the emergence of democratic institutions in transitional nations.</p> <p><b>Position Held:</b> Fellow</p> <p><b>Activities Performed:</b> Worked with a team of researchers to study individual behavior and decision-making within strategic majority rule scenarios. Quantitatively analyzed data from laboratory experiments, large-N surveys, and national legislatures.</p>
<p>Investigate pay discrepancies across academic departments and schools</p> <p>Recommend salary adjustments organizational protocols to lessen pay inequities</p> <p>Convey and address stakeholder input</p>	<p><b>Project Name:</b> Graduate and Professional Student Remuneration Inequities</p> <p><b>Year:</b> 2008 – 2009</p> <p><b>Location:</b> Home-based</p> <p><b>Client:</b> Graduate and Professional Student Organization, Indiana University Graduate School</p> <p><b>Main project features:</b> Advocate for the graduate student body and serve as their governing body.</p> <p><b>Position Held:</b> GPSO Executive Committee Member, Researcher</p> <p><b>Activities Performed:</b> Investigated differences in graduate student pay and benefits across academic disciplines and schools. Compared Indiana University graduate student compensation plans with those of peer institutions. Held public forums to educate the graduate student population</p>

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and faculty on the issue. Made recommendations to university administration.

### 13. PEER-REVIEWED ARTICLES

**TITLE**

STATUS

CO-AUTHORS

**Externalities.**

2017. In T. K. Shackelford & V. A. Weekes-Shackelford (eds.), *Encyclopedia of Evolutionary Psychological Science*. Springer.  
Ursula W. Kreitmair

**Redistribution Preferences and Low Socio-Economic Status.**

2017. In T. K. Shackelford & V. A. Weekes-Shackelford (eds.), *Encyclopedia of Evolutionary Psychological Science*. Springer.

**Estimating State and Sub-State Economic Effects of a Carbon Dioxide Tax Policy: Application of a New Multi-Region Energy-Economy Econometric Model**

2015. *Regional Science, Policy and Practice*, 7(3):119–139. 2015.

Sanya Carley, Kenneth Richards, Barry Rubin, David Warren, Zach Wendling

**Predicting Majority Rule Outcomes: A Critical Test between the Uncovered Set and the Strong Point.**

2014. *Journal of Theoretical Politics*, 27(4):650–672. 2015.

William Bianco, Nicholas D'Amico, Christopher Kam, Itai Sened, Regina Smyth

**Local and Long-Distance Scenarios in the Voluntary Contribution Mechanism: Heterogeneity in Group Marginal Per Capita Return**

Under review

Ursula Kriemair

**A Tool for All People but Not All Occasions: How Voting Heuristics Interact with Political Knowledge and Environment**

Under review

Nicholas D'Amico

**Desert and Redistribution: Justice as a Remedy for and Cause of Inequality**

Under review

**Earning Our Place, More or Less: Responsibility's Flexible Relationship with Desert**

Under review

### 14. CONFERENCE PRESENTATIONS

**CONFERENCE**

PRESENTATION, YEAR

**American Political Science Association**

- The Role of Morality in Economic Redistribution, 2014
- Heuristics and Sophistication in the Voting Booth, 2012

**Midwest Political Science Association**

- Desert and Voluntary Redistribution, 2014
- Hail the Meritocrat: Faith and Fairness in the American Economy, 2013
- Heuristics and Sophistication in the Voting Booth, 2012
- Voting: See It Now in Two Dimensions, 2011

**Workshop in Political Theory and Public Policy**

- What We Deserve: How Our Definitions of Economic Justice Influence Redistribution, 2014
- Constitutions & Education: Building & Burning Bridges in Burma, 2008
- Choosing Your Public: A Look at Charter Schools and Exclusion, 2007

**Assoc. for the Advancement of Sustainability in Higher Education**

- Constitutional Structure in Sustainable Collaborations, 2010

**Jordan River Economic Conference**



- When Schools Compete: Charter Schools and Their Effects on Traditional Public Education, 2007

## 15. TEACHING EXPERIENCE

COURSE POSITION, YEAR	
	<b>Introduction to the Political Economies of the Near East (PPAD 5199)</b> Instructor, 2017
	<b>Applied Quantitative Analysis (PPAD 509)</b> Instructor, 2017
	<b>The Role of Government in a Market-Oriented Economy (PPAD 503)</b> Instructor, 2017
	<b>Policy Analysis and Program Evaluation (PPAD 515)</b> Instructor, 2016
	<b>Masters Thesis Research Seminar (PPAD 598)</b> Instructor, 2016
	<b>Politics and Philosophy: Theories of Justice (PH155)</b> Instructor, 2016
	<b>Making Public Policy (11.002J / 17.30J)</b> Instructor, 2015
	<b>Statistical Analysis for Effective Decision-making (V506)</b> Instructor, 2013
	<b>The Politics of Sustainability (Y200)</b> Instructor, 2010–11
	<b>The American Presidency (Y380)</b> Instructor, 2011
	<b>Analyzing Politics (Y205)</b> Associate Instructor, 2010
	<b>The Holocaust and Politics (Y352)</b> Associate Instructor, 2009
	<b>Introduction to American Politics (103)</b> Associate Instructor, 2009 & 2012
	<b>The Politics of Gender and Sexuality (Y353)</b> Associate Instructor, 2008
	<b>Introduction to Microeconomics (E201)</b> Undergraduate Intern, 2005–07

## 16. FELLOWSHIPS AND GRANTS

FELLOWSHIP/GRANT SOURCE, YEAR	
	<b>John H. Edwards Fellowship</b> Indiana University Graduate School, 2013–14
	<b>Social Science Research Grant</b> Indiana University, Social Science Research Commons, 2013–14
	<b>Sustainability Development Research Grant</b> Indiana University, Office of Sustainability, 2013–14
	<b>Ostrom Research Grant</b> Ostrom Workshop in Political Theory and Policy Analysis, 2014
	<b>Katharine Greenough Fellowship</b> Indiana University, 2011–14
	<b>Political Economic in Democratic Sustainability Fellowship</b> Indiana University, Department of Political Science, 2009–2011
	<b>Graduate Student Leadership Award</b> Indiana University, Department of Political Science, 2009 & 2012
	<b>Sustainability Course Development Fellowship</b> Indiana University, Office of Sustainability, 2010
	<b>Indiana University International Enhancement Grant</b> Indiana Univ., Office of the Vice President for International Affairs, 2009
	<b>Ostrom Fellowship</b> Ostrom Workshop in Political Theory and Policy Analysis, 2007–08
	<b>Stephen R. Patton Scholarship Award</b> Indiana University, Department of Political Science, 2007
	<b>James E. Moffat Scholarship Recognition Award</b> Indiana University, Department of Economics, 2007
	<b>Jacob and Lucy Listenfelt Memorial Scholarship Award</b> Indiana University, Department of History, 2007
	<b>Hutton Honors College Research Grant</b> Indiana University, Hutton Honors College, 2006–07