

# Christopher P. Barrington-Leigh

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**Appointments** ASSOCIATE PROFESSOR, MCGILL UNIVERSITY Montreal, Canada  
2023–: Associate Professor, jointly appointed in the Department of Equity, Ethics, and Policy;  
and the Bieler School of Environment)  
2017–2023: Associate Professor, jointly appointed in the Institute for Health and Social Policy  
(IHSP) and the School of Environment  
2018: Visiting Professor, University of British Columbia  
2011–2019, 2024–: Associate member in the Department of Economics, McGill  
2011–2017: Assistant Professor, jointly appointed in the IHSP and the School of Environment

INSTITUTE FOR RESOURCES, ENVIRONMENT AND SUSTAINABILITY, UBC  
Feb-July 2011: Postdoctoral researcher.

CANADIAN INSTITUTE FOR ADVANCED RESEARCH (CIFAR) / UBC ECONOMICS  
2009–2011: CIFAR Global Scholar in Social Interactions, Identity, and Well-being research  
programme.

UNIVERSITY OF CALIFORNIA, BERKELEY Berkeley, California  
November 2000 - February 2002: Postdoctoral appointment in space physics.

**Education** UNIVERSITY OF BRITISH COLUMBIA Vancouver, Canada  
January 2009: PhD Economics.

STANFORD UNIVERSITY Stanford, California  
January 2001: PhD Applied Physics.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY Cambridge, Massachusetts  
June 1995: S.B. Physics (with humanities concentration in French).

**Distinctions** 2023: Appointed Research Affiliate of the Oxford Wellbeing Research Centre  
2023: Research Fellow Award (International Society for Quality-of-Life Studies)  
2023: Appointed Research Fellow of the Centre interuniversitaire de recherche en économie  
quantitative (CIREQ)  
2018: Induction to the Global Young Academy  
2012: McGill delegate to the Universitas 21 Early Career Researchers Workshop, *Merging  
Theory into Practice: Ecological Urban Design* (Shanghai Jiao Tong University, Shang-  
hai)  
2009-2011: Global Scholar of the Canadian Institute for Advanced Research  
2005: Selection for Summer School on Development Economics at the Banff Centre (Bureau  
for Research and Economic Analysis of Development, Harvard University)  
2004-2007: SSHRC Canada Graduate Scholarship (Doctoral)  
2003: Graduate Entrance Fellowship, University of British Columbia  
2002: Union of Radio Science International (URSI) Young Scientist Award  
2002: Elected Associate Member of URSI Commission H  
2000: U.S. National Science Foundation Antarctic Service Award Medal  
1999: Selection for the 1999 NASA Summer School for High Performance Computational  
Earth and Space Sciences at the NASA Goddard Space Flight Center's Earth and Space  
Data Computing Division.  
1996: Canadian Federation for the International Space University: Full scholarship for the  
1996 Summer Session of ISU in Vienna.

1995: Election to Sigma Xi (Scientific Research Honor Society)  
 1994: National Undergraduate Fellow in Plasma Physics and Fusion Engineering (U.S. DOE, Princeton Plasma Physics Lab)

## Boards and Committees

- Director of the *World Well-being Panel*, 2023–
- Founder and President, *Canadian Happiness Economics Research Group* (Canadian Economics Association), 2022–
- Leadership Team (and P.I.), *Canadian Wellbeing Knowledges Network*, 2022–
- Advisory Committee on a Quality of Life Index for the City of Montreal, 2017–2020
- Chair, Scientific Committee, prospective international conference on “Building better lives”, 2014–2015.
- Scientific Committee, fourth conference of the Sustainable Consumption Research and Action Initiative (SCORAI), Worcester, Massachusetts, June 2013
- UBC representative on Vancouver’s Greenest City 2020 External Advisory Committee, 2010
- UBC Department of Economics Faculty Hiring Committee (PhD representative), 2006–2007
- Cecil and Ida Green Visiting Professorship Committee (UBC), 2006–2008
- Board of Directors, Green College Dining Society, a 0.5M\$/year catering and dining service at UBC’s Green College, 2005–2006

## Patent

Matthew Brown, Christopher Barrington-Leigh, Christopher Porter, and Neil Gentleman, “*Systems and methods for predictive building energy monitoring*,” European patent 10196723.0-2213, USA patent 12/646764. This data-driven prediction algorithm for building energy use is a core technology in the energy monitoring and optimisation system of Pulse Energy (subsequently EnerNOC Inc.), installed in thousands of commercial buildings worldwide.

## University Teaching

### McGILL UNIVERSITY (UNDERGRADUATE)

2014–2016, 2018–2023: ENVIRONMENT, SOCIETY, AND SUSTAINABILITY (ENVR201)

2012, 2012, 2013, 2021–2023: ENVIRONMENTAL RESEARCH METHODS (ENVR301)

2014, 2019 autumns: ECONOMICS OF WELL-BEING (ECON430 and ENVR430): designer and instructor of **new course**

2018: ENVIRONMENTAL RESEARCH (ENVR401)

2012, 2013: QUANTITATIVE THINKING IN ENVIRONMENT (as ENVR380): designer and instructor of **new course**

2011, 2012, 2013: Guest lectures on the economics of climate change in THE GLOBAL ENVIRONMENT (ENVR200)

### McGILL UNIVERSITY (POST-GRADUATE)

2019, 2020 autumns: INTERDISCIPLINARY APPROACH TO ENVIRONMENT AND SUSTAINABILITY (ENVR615): co-designer and instructor of **new course**

2015, 2016: ENVIRONMENTAL SEMINAR (ENVR650, ENVR652)

### UNIVERSITY OF BRITISH COLUMBIA ECONOMICS DEPARTMENT

2009: Microeconomic policy (ECON 210): THE ECONOMICS OF CLIMATE CHANGE: designer and instructor of **new course**

### STANFORD UNIVERSITY EDUCATION PROGRAM FOR GIFTED YOUTH

March 2002 - May 2003: Physics Instructor for four undergraduate courses.

### MASSACHUSETTS INSTITUTE OF TECHNOLOGY

1993, 1994: Instructor, CLASSICAL MECHANICS (8.012, E.S.G.)

## Research Grants as P.I.

2024–2030	Understanding life satisfaction responses around the world (SSHRC Insight Grant)	\$321,620	P.I.
2024–2026	The Urban Sustainable Transport Lab (Bieler Ignite Grant), with Kevin Manaugh (Geography, McGill)	\$50,000	Co-P.I.
2022–2024	Street network sprawl and environmental and social outcomes in Canada (Bieler Ignite Grant)	\$50,000	P.I.
2022	Environmental collective action problems: a database of solutions (Bieler URA)	\$6,000	P.I.
2022	Beyond GDP — Metric Feasibility Study (MITACS Accelerate)	\$15,000	P.I.
2022–2023	Canadian Wellbeing Knowledges Network (SSHRC CG)	\$67,000	P.I.
2021	Street network sprawl, environment, and wellbeing in Canada” (Bieler URA)	\$6,000	P.I.
2021–2022	Understanding collective action problems as ubiquitous opportunities for success (McGill Internal Social Sciences and Humanities Development Grant)	\$5,000	P.I.
2017–2021	Evaluating sustainable household energy transitions in a large-scale program in Beijing, China (SSHRC IDG). PI: Brian Robinson (Geography, McGill).	\$74,966	Co-I.
2016–2017	Policy effectiveness and household economic effects of coal-to-electricity home heating transition in Beijing province (McGill Social Sciences and Humanities Emerging Scholars Accelerator)	\$10,000	P.I.
2016–2022	“Global urban sprawl, climate policy, and well-being” (SSHRC Insight Grant)	\$267,179	P.I.
2014	Geographical information systems processing: understanding urban form (MITACS Globalink)	Indirect	P.I.
2014	“Experimental economics software development,” with Francisco Alvarez-Cuadrado (Arts Undergraduate Research Internship Awards)	\$2,000	Co-I
2013–2015	“Interdependent Preferences and Subjective Well-Being: An experimental approach,” with Francisco Alvarez-Cuadrado (SSHRC IDG)	\$73,996	Co-I
2013–2015	Measurement and analysis of urban well-being (IHSP internal seed grant)	\$19,300	P.I.
2013–2014	“Carbon pricing and the path-dependence of urban sprawl” (Sustainable Prosperity’s Research and Policy Network SSHRC Strategic Knowledge Cluster Grant)	\$8,000	P.I.
2012–2016	“Stratification socio-économique du bien-être subjectif: une étude de quatre pays” (FQRSC New Researcher grant)	\$39,600	P.I.
2012–2015	“Socioeconomic stratification of subjective well-being” (SSHRC IDG) nominated for 2012 SSHRC Aurora Prize	\$74,871	P.I.
2012–2015	“Accounting for international differences in life satisfaction: a global vignette study” (McGill Internal Social Sciences and Humanities Development Grant)	\$5,000	P.I.

## Past Employment (selected)

STANFORD UNIVERSITY DEPARTMENT OF ELECTRICAL ENGINEERING (PROF. UMRAN INAN)

*September 1995 - September 2000*: Research assistant; comprehensive involvement in upper atmospheric and space physics research programme (lightning-driven electrodynamics of upper atmosphere, ionosphere, and magnetosphere; VLF radio propagation), including instrument design and construction, extensive field work, theoretical modelling, grant proposal writing.

M.I.T. PLASMA FUSION CENTER (DR. JOHN RICE)

*1994-1995 (September - June)*: Modelled neutral hydrogen density profiles for undergraduate thesis as part of project to increase efficiency of prototype fusion reactors.

GENERAL ATOMICS (TOKAMAK FUSION GROUP)

San Diego, California

*1994 (June-August)*: Analysis and operation of plasma fusion power experiment.

M.I.T. CENTER FOR SPACE RESEARCH (PROF. ALAN LAZARUS)

*1993 to 1994 (February to January)*: Helped identify a problem with data returned by MIT plasma instrument on IMP-8 spacecraft. Worked on modifying analysis software to overcome the problem and to update data reduction techniques. Analysis of solar wind data.

## Articles in refereed journals

Barrington-Leigh, C. P. and Adam Millard-Ball, “**A high-resolution global time series of street-network sprawl**”, *Environment and Planning B: Urban Analytics and City Science*, doi:10.1177/23998083241306829, in press, 2025.

Adam Millard-Ball, Ben Silverstein, Purva Kapshikar, Sierra Stevenson, and C. P. Barrington-Leigh, “**Dividing Highways: Barrier Effects and Environmental Justice in California**”, *Journal of Planning Education and Research*, doi:10.1177/0739456X241247330, 2024.

Xiang Zhang, C. P. Barrington-Leigh, and Brian E Robinson, “**Rural household energy transition in China: Trends and challenges**”, *Journal of Cleaner Production*, doi:10.1016/j.jclepro.2024.141871, March 2024.

Barrington-Leigh, C. P., “**The econometrics of happiness: Are we underestimating the returns to education and income?**”, *Journal of Public Economics*, doi:10.1016/j.jpubeco.2023.105052, February 2024.

Eric D. Galbraith, C. P. Barrington-Leigh, Sara Miñarroa, Santiago Álvarez-Fernández, Emmanuel M. N. A. N. Attohf, Petra Benyeia, David García-del-Amoa, Laura Calvet-Mir, Rosario Carmona, Rumbidzayi Chakauya, Zhuo Chen, Fasco Chengula, Álvaro Fernández-Llamazares, Marcos Glauserm, Tomas Huan-can, Andrea E. Izquierdoo, André B. Junqueira, Marisa Lanker, Xiaoyue Li, Juliette Mariel, Mohamed D. Miarar, Priyatma Singh, Miquel Torrents-Ticó, Vincent Porcher, Anna Porcuna-Ferrer, Anna Schlingmann, Reinmar Seidler, Uttam Babu Shrestha, Tungalag Ulambayar, Rihan Wu, and Victoria Reyes-García, “**High life satisfaction reported among small-scale societies with low incomes**”, *Proceedings of the National Academy of Sciences*, doi:10.1073/pnas.2311703121, January 2024.

Felix Vazquez, Adam Millard-Ball, C. P. Barrington-Leigh, “**Urban development & street-network sprawl in Tokyo**” *Journal of Urbanism: International Research on Placemaking and Urban Sustainability*, doi:10.1080/17549175.2023.2262698, October 2023.

William Fajzel<sup>+</sup>, Eric D. Galbraith, C. P. Barrington-Leigh, Jacques Charmes, Elena Frie, Ian Hatton, Priscilla Le Mézo, Ron Milo, Kelton Minor, Xinbei Wan, Veronica Xia, and Shirley Xu, “**The Global Human Day**”, *Proceedings of the National Academy of Sciences*, doi:10.1073/pnas.2219564120, June 2023.

Barrington-Leigh, C. P. and Katja Lernermeier, “**A public, open, and independently-curated database of happiness coefficients**”, *Journal of Happiness Studies*, doi:10.1007/s10902-023-00652-4, April 2023.

- Xiaoying Li, Jill Baumgartner, Sam Harper, Xiang Zhang, Talia Sternbach, Christopher Barrington-Leigh, Collin Brehmer, Brian Robinson, Guofeng Shen, Yuanxun Zhang, Shu Tao, Ellison Carter, **“Field measurements of indoor and community air quality in rural Beijing before, during, and after the COVID-19 lockdown,”** *Indoor Air*, DOI:10.1111/ina.13095, Volume 32, Issue 8, 27 August 2022.
- Eric Galbraith, William Fajzel<sup>+</sup>, Shirley Xu, Veronica Xia, Elena Frie, Christopher Barrington-Leigh, and Victoria Reyes-García, **“Interdisciplinary applications of human time use with generalized lexicons,”** *PLOS One*, DOI:10.1371/journal.pone.0270583, 14 July 2022.
- Xiaoying Li, Jill Baumgartner, Christopher Barrington-Leigh, Sam Harper, Brian Robinson, Guofeng Shen, Talia Sternbach, Shu Tao, Xiang Zhang, Yuanxun Zhang, Ellison Carter, **“Socioeconomic and Demographic Associations with Wintertime Air Pollution Exposures at Household, Community, and District Scales in Rural Beijing, China,”** *Environmental Science & Technology*, DOI:10.1021/acs.est.1c07402, Volume 56, Number 12, pp. 8308–8318, 8 June 2022.
- Barrington-Leigh, C. P., **“Life satisfaction and sustainability: a policy framework,”** *SN Social Sciences*, DOI:10.1007/s43545-021-00185-8, July 2021 (35 pages).
- Sara Miñarro, Victoria Reyes-García, Shankar Aswani, Samiya Selim, Christopher P. Barrington-Leigh, and Eric D. Galbraith, **“Happy without money: minimally monetized societies can exhibit high subjective well-being,”** *PLOS One*, DOI:10.1371/journal.pone.0244569, Jan, 2021.
- Chan, Kai M. A. and 39 others, **“Levers and leverage points for pathways to sustainability,”** *People and Nature*, DOI:10.1002/pan3.10124, July 2020 (25 pp).
- Barrington-Leigh, C. P., Adam Millard-Ball, **“Global trends towards urban street-network sprawl,”** *Proceedings of the National Academy of Sciences*, DOI:10.1073/pnas.1905232116, Jan 2020 (88 pp).
- Barrington-Leigh, C. P., Adam Millard-Ball, **“A global assessment of street network sprawl,”** *PLOS One*, DOI:10.1371/journal.pone.0223078, Nov 2019 (86 pp).
- Barrington-Leigh, C. P., Jill Baumgartner, Ellison Carter, Brian Robinson, Shu Tao, Yuanxun Zhang, **“An evaluation of air quality, home heating, and well-being under Beijing’s program to eliminate household coal use,”** *Nature Energy*, DOI:10.1038/s41560-019-0386-2, May 2019 (44 pp).
- Barrington-Leigh, C. P. and Eric Galbraith, **“Feasible future global scenarios for human life evaluations,”** *Nature Communications*, DOI:10.1038/s41467-018-08002-2, 2019 (33 pp).
- Helliwell, John F and Hugh Shiplett<sup>+</sup> and C. P. Barrington-Leigh, **“How Happy are Your Neighbours? Variation in Life Satisfaction among 1200 Canadian Neighbourhoods and Communities,”** *PLOS One*, DOI:10.1371/journal.pone.0210091, 2019 (31 pp).
- Barrington-Leigh, C. P. and Jan Wollenberg<sup>+</sup>, **“Informing policy priorities using inference from life satisfaction responses in a large community survey,”** *Applied Research in Quality of Life*, DOI:10.1007/s11482-018-9629-9, Vol. 14, pp. 911–924, 2019 (20 pp).
- Barrington-Leigh, C. P. and Adam Millard-Ball, **“The world’s user-generated road map is more than 80% complete,”** *PLOS One*, DOI:10.1371/journal.pone.0180698, August 2017.
- Garipey, Genevieve, Frank J. Elgar, Mariane Sentenac, Britt McKinnon, and C. P. Barrington-Leigh, **“Early-life family income and subjective well-being in adolescents,”** *PLOS One*, DOI:10.1371/journal.pone.0179380, July 2017.
- Barrington-Leigh, C. P. and Fatemeh Behzadnejad, **“The Impact of Daily Weather Conditions on Life Satisfaction: Evidence from Cross-sectional and Panel Data,”** *Journal of Economic Psychology*, DOI:10.1016/j.joep.2017.01.003, Vol. 59, pp. 145–163, April 2017 (28 pp).
- Barrington-Leigh, C. P. and Adam Millard-Ball, **“More connected urban roads reduce US GHG emissions,”** *Environmental Research Letters*, DOI:10.1088/1748-9326/aa59ba, Vol. 12, No. 4, 2017. (24 pp)
- Barrington-Leigh, C. P. and Alice Escande, **“Measuring progress and well-being: A comparative review of indicators,”** *Social Indicators Research*, DOI:10.1007/s11205-016-1505-0, 2017. (48 pp)

- Barrington-Leigh, C. P. and Fatemeh Behzadnejad, “**Evaluating the short-term cost of low-level local air pollution: a life satisfaction approach**,” *Environmental Economics and Policy Studies*, 19:269. doi:10.1007/s10018-016-0152-7, 15 April 2017. (51 pp)
- Barrington-Leigh, C. P. and Mark Ouliaris, “**The renewable energy landscape in Canada: a spatial analysis**,” *Renewable & Sustainable Energy Reviews*, Vol. 75, doi:10.1016/j.rser.2016.11.061, August 2017 (online 2016). (60 pp)
- Barrington-Leigh, C. P. and Sabina Sloman, “**Life satisfaction among Aboriginals in the Canadian Prairies: Evidence from the Equality, Security and Community survey**,” *The International Indigenous Policy Journal*, doi:10.18584/iipj.2016.7.2.2, Vol. 7, No. 2, 25 May 2016. (33 pp)
- Barrington-Leigh, C. P., Bronwen Tucker, and Joaquin Kritz Lara, “**Short-run household, industrial, and labour impacts of the Québec carbon market**,” *Canadian Public Policy*, doi:10.3138/cpp.2015-015, 1 December 2015. (16 pp)
- Barrington-Leigh, C. P. and Adam Millard-Ball, “**A Century of Sprawl in the United States**,” *Proceedings of the National Academy of Sciences*, doi:10.1073/pnas.1504033112, 15 June 2015. (28 pp)
- Lara B. Aknin, C. P. Barrington-Leigh, Elizabeth W. Dunn, John F. Helliwell, Robert Biswas-Diener, Imelda Kemeza, Paul Nyende, Claire Ashton-James, Michael I. Norton, “**Prosocial Spending and Well-Being: Cross-Cultural Evidence for a Psychological Universal**,” *Journal of Personality and Social Psychology*, 104(4), 635-652. doi:10.1037/a0031578, 2013.
- Barrington-Leigh, C. P., “**The Québec convergence and Canadian life satisfaction 1985–2008**,” *Canadian Public Policy* 39, No. 2, pp. 193–219, June 2013. DOI: 10.3138/CPP.39.2.193
- Matthew Brown, C. P. Barrington-Leigh, and Zosia Brown, “**Kernel Regression for Real-Time Building Energy Analysis**,” *Journal of Building Performance Simulation*, June 2011. DOI: 10.1080/19401493.2011.577539
- Jon Hall, C. P. Barrington-Leigh, and John F. Helliwell, “**Cutting through the Clutter: Searching for an Over-Arching Measure of Well-Being**,” *DICE Report*, Vol. 8, Issue 4, 2011.
- John F. Helliwell and C. P. Barrington-Leigh, “**Measuring and Understanding Subjective Well-Being**,” *Canadian Journal of Economics*, Vol. 43, Issue 3, pp. 729-753, August 2010.
- Smith, David M., Liliana I. Lopez, R. P. Lin, and Christopher P. Barrington-Leigh, “**Terrestrial Gamma-Ray Flashes Observed up to 20 MeV**,” *Science*, Vol 307, Issue 5712, doi:10.1126/science.1107466, Feb 2005.
- Moore, R. C., C. P. Barrington-Leigh, U. S. Inan, and T. F. Bell, “**Early/Fast VLF Events Produced by Electron Density Changes Associated with Sprite Halos**,” *J. Geophys. Res.* 108, No. A10, 1363, Oct 2003.
- Lin R.P, et al., “**The Reuven Ramaty high-energy solar spectroscopic imager (RHESSI)**,” *Solar Physics*, 210 (1-2): 3-32 Nov 2002.
- Barrington-Leigh, C. P., V. P. Pasko, and U. S. Inan, “**Exponential relaxation of optical emissions in sprites**,” *J. Geophys. Res.* 107, No. A5, doi:10.1029/2001JA90011, May 2002.
- Barrington-Leigh, C. P., U. S. Inan, and M. Stanley, “**Identification of Sprites and Elves with Intensified Video and Broadband Array Photometry**,” *J. Geophys. Res.* 106, No. 2, February 2001.
- Gerken, E. A., U. S. Inan, C. P. Barrington-Leigh, “**Telescopic imaging of sprites**,” *Geophys. Res. Lett.* 27, No. 17, September 1, 2000.
- Barrington-Leigh, C. P., U. S. Inan, M. Stanley, and S. A. Cummer, “**Sprites triggered by negative lightning discharges**,” *Geophys. Res. Lett.* 26, No. 24, December 1999.
- Barrington-Leigh, C. P., and U. S. Inan, “**Elves triggered by positive and negative lightning discharges**,” *Geophys. Res. Lett.* 26, No. 6, March 1999.
- Cummer, S. A., U. S. Inan, T. F. Bell, C. P. Barrington-Leigh, “**ELF radiation produced by electrical currents in sprites**,” *Geophys. Res. Lett.* 25, No. 8, p. 1281, April 15, 1998.

Inan, U.S., C. P. Barrington-Leigh, S. Hansen, V.S. Glukhov, T.F. Bell, and R. Rairden, “**Rapid Lateral Expansion of Optical Luminosity in Lightning-Induced Ionospheric Flashes Referred to as ‘Elves,’**” *Geophys. Res. Lett.*, *24*, 5, pp. 583-586, 1997.

Barrington-Leigh, C. P., “**A Mountaineering Accident: Not So Sticky After All,**” *The Physics Teacher*, *30*, Number 5, May 1992.

## Published book chapters

Barrington-Leigh, C. P., “**Wellbeing in Canada: Progress towards measurement, policy, and practice**”, in *Wellbeing and policy: Evidence for Action*, Marie Briguglio, Natalia V Czap , and Kate Laffan (Eds.), Routledge, *in press*, 2024.

Barrington-Leigh, C. P., **Trends in conceptions of progress and well-being**, Chapter 3 in the *2022 World Happiness Report*, John F. Helliwell, Richard Layard, Jeffrey D. Sachs, Jan-Emmanuel De Neve, Lara B. Aknin, and Shun Wang (Eds.), New York: Sustainable Development Solutions Network, 2022.

John F. Helliwell, Lara B. Aknin, C. P. Barrington-Leigh, Jon Hall, Haifang Huang, Max B. Norton, Hugh Shiple and Shun Wang, **Policies to support happiness during and after COVID-19: A Synthesis**, Chapter 1 in *Global Happiness and Wellbeing Policy Report 2022*, The Global Council for Happiness and Wellbeing, New York: Sustainable Development Solutions Network, 2022.

Barrington-Leigh, C. P., “**Wellbeing, sustainability, and progress: a framework for public and policy discourse and for quantitative decision-making using the life satisfaction approach**” in *Toward Sustainable Wellbeing: Moving Beyond GDP in Canada and the World*, Anders Hayden, Céol Gaudet, and Jeffrey Wilson (Eds.), University of Toronto, October 2022.

Barrington-Leigh, C. P., “**Consumption externalities**,” in *Encyclopedia of Quality of Life Research*, Michalos, Alex C. (Ed.), Springer, 2014, 2020. (5 pp)

Chan, K.M.A., J. Agard, J. Liu, and 38 others, “**Pathways towards a Sustainable Future**”, Chapter 5 in *IPBES Global Assessment on Biodiversity and Ecosystem Services*, Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, 2019.

Barrington-Leigh, C. P., “**The role of subjective well-being as an organizing concept for community indicators**,” in *Community Quality of Life and Wellbeing: Best Cases VII*, Meg Holden, Rhonda Phillips and Chantal Stevens (Eds.), Springer, 2017. (20 pp)

Barrington-Leigh, C. P., “**Rising Life Satisfaction in Korea: a Panel Data Analysis**,” in *Measuring and Explaining Subjective Well-Being in Korea*, Shun Wang (Ed.), Korean Development Institute, 2015. (37 pp)

Barrington-Leigh, C. P., “**Comprendre l’égalité par le bien-être : le cas du Québec**,” in *Miser sur l’égalité*, Alain Noël and Miriam Fahmy (Eds.), l’Institut du Nouveau Monde, 2014. (13 pp). Also available as English version, “Using measured well-being to understand equality: the case of Québec”.

John F. Helliwell and C. P. Barrington-Leigh, “**How much is social capital worth?**”, in *The Social Cure: Identity, Health, and Well-being*, pp 55–72, edited by Jolanda Jetten, Catherine Haslam, and S. Alexander Haslam, Psychology Press, 2011.

John F. Helliwell, C. P. Barrington-Leigh, Anthony Harris and Haifang Huang, “**International Evidence on the Social Context of Well-Being**,” in *International Differences in Well-Being*, pp 291–327, edited by Kahneman, Diener and Helliwell (Oxford University Press), 2010.

## Invited addresses

**Working with Countries to Measure Wealth and Move Beyond GDP**, invited panelist along with Chief Statistician of Canada; Director of Environment, Global Affairs Canada; Lead Economist, World Bank; Chief Environmental Economist, UNEP. International Institute for Sustainable Development, Ottawa, 15 May 2024.

**Subjective well-being as the central goal for government? How, why, and why not quite**, STATEC Measuring Progress seminar, 20 September 2023.



**Life evaluations around the world: Cultural and cognitive differences in the use of numerical subjective response scales**, London School of Economics, 19 April 2023.

**Economics of happiness: are the foundations robust?**, Department of Economics, UNR 5 December 2022

**Keynote speaker** for 2022 annual International Society for Quality-of-Life Studies (ISQOLS) conference, “Quality-of-Life for Resilient Futures: Sustainability, Equity, and Wellbeing,” Burlington, Vermont, 3-6 August 2022

**Response distributions around the globe: Cultural differences in cognitive evaluations of life**, Wellbeing Research & Policy Conference, Oxford 6–8 July 2022

**Redefining GDP: finding alternative metrics for assessing development** (panelist), OxFID 2022: Aurora: Redefining Progress and Navigating Transition, Oxford Forum for International Development, Oxford UK, Feb 26–27, 2022.

**Mesures du bien-être, de la satisfaction à la vie et du bonheur: un état des lieux**, Direction régionale de santé publique, Montreal, 9 March 2022.

**What can the life satisfaction approach do for policy?**, Escola Superior de Propaganda e Marketing (ESPM), Brazil, August 2021.

**Response Scales, Focal Values, and the Mis-Measurement of Subjective Well-Being**, Wellbeing Research Centre (University of Oxford) / Bennett Institute for Public Policy (University of Cambridge) conference on “Fundamental issues in the measurement of subjective well-being (SWB)”, February 2021.

**Wellbeing budgeting: Reframing policy around life satisfaction**, NCCHPP/CCNPPS webinar, 25 Nov 2020.

**Reframing policy around life satisfaction**, address and workshop for 25 elected officials, *Leadership and Legacy*, during the Livable Cities Forum Victoria, BC, 28 October 2019 (invited by the Mayor of Victoria).

**How the new science of happiness could – and must – change the world**, Vanier College, 24 October 2019.

**Trends and long-run implications of local street-network connectivity: a global census and analysis**, University of Chicago, 16 October 2019.

**Measuring community well-being in Montreal and reframing policy**, Ville de Montréal, 15 July 2019.

**Re-Designing Government for Wellbeing**, workshop for NewCities Foundation’s Wellbeing Cities Forum, Montreal, 19 June 2019

**Well-being, sustainability, and progress: how to frame policy**, at *Beyond GDP: International Experiences, Canada’s Options*, Dalhousie University, 23–24 May 2019.

**Focal-value responses: the inter-personal and inter-cultural comparability of SWB**, Canadian Institute for Advanced Research meeting, Vancouver, 9 June 2018.

**Local road network connectivity changes as a characterization of global trends in urban form**, University of British Columbia, 29 May 2018.

**Some (mostly) good news on Happiness and sustainability**, Dalhousie University’s Environment, Sustainability, and Society lecture series, Halifax, 11 Jan 2018

**Well-being and sustainability**, Institut de Ciència i Tecnologia Ambientals (ICTA), University Autònoma de Barcelona, 19 Oct 2017.

**Global distribution of satisfaction with life**, Japanese-Canadian Frontiers of Science (JCFoS) Symposium, Okinawa, Japan, 3 Nov 2017.

**Measuring community well-being in Montreal**, Presentation to Ville de Montréal, 6 Jul 2017

**Rising life satisfaction in Korea: does growth ever get the credit?**, University of Sherbrooke Department of Economics, March 2015.

**The future of monetary exchange systems**, address to the Association des économistes québécois, Section Montréal, 2014 Nov 18



**Happiness, neighbourhoods, and policy: subjective well-being in economics**, address to *Regenerative Neighbourhood Project* workshop, UBC, Vancouver, 10 Sep 2014.

**Social preferences, identity, and well-being: a modern economic account of human nature**, 4th annual GEINH Colloquium, Université de Montréal, March 2014.

**Experimental disentangling of social preferences**, Social Interactions, Identity, and Well-being programme meeting, Canadian Institute for Advanced Research, Montreal, June 2013.

**Urban sprawl: path-dependence and climate policy**, Merging Theory into Practice: Ecological Urban Design, Universitas 21 Early Career Researchers Workshop, Shanghai Jiao Tong University, Shanghai, China, December 2012.

Invited speaker at workshop with staff of the Government of Québec and OECD, *Vers un indicateur Vivre mieux-québécois*, Québec City, May 2012

**Poverty, gender, and subjective well-being**, for workshop *Exploring the Intersections between Poverty and Gender*, World Bank, Washington D.C., May 2012.

**Well-being and social capital in Québec**, industry/academic workshop with SECOR Consulting, Leger Marketing, UQAM, Université Laval, and others, Montréal, April 2012.

**Relative Income and Happiness: A Global Study**, Sustainable Consumption Research and Action Initiative (SCORAI) 3rd Workshop, Vancouver, March 2012.

Departmental seminars at McGill University, University of Queensland, University of Ottawa, Simon Fraser University, University of Edinburgh (all 2011).

Invited speaker at Canadian Centre for Policy Alternative's invitational think tank on *Prosperity Without Growth?*, March, 2010.

Invited panelist on *Macroeconomic Policy Goals: Growth in GDP, Sustainability & Wellbeing*, Canadian Economics Association Annual Meeting, Toronto, May 2009.

Invited panelist at Metro Vancouver *Future of the Region Sustainability Dialogues*, Surrey and North Vancouver, March and April, 2009.

Keynote address on *Diversity and Sustainability through Citizenship: Issues for Social and Economics Educators* at Eighth International Conference of the International Association for Citizenship, Social and Economics Education, Kelowna, June 2009.

Opening day address to Whistler Forum's *Leadership Sea to Sky*, Whistler, Dec. 2007.

## Conference presentations (contributed)

**High life satisfaction reported among small-scale societies with low incomes**, 2024 Measuring Progress Annual Workshop, STATEC, Luxembourg 6–7 June 2024.

**High life satisfaction reported among small-scale societies with low incomes**, Canadian Economics Association annual meetings, Toronto, 2024.

**Cultural Differences in the Use of Subjective Response Scales**, ISQOLS annual meeting, Rotterdam, Aug 2023.

**Building a database of solved collective action problems**, Global Young Academy Annual General Meeting and International Conference, Kigali, 2023.

**Life satisfaction scales in China**, Canadian Economics Association annual meetings, Winnipeg, 2023.

**The Canadian Database of Happiness Coefficients**, with Katja Lermeyer, Canadian Economics Association annual meetings, Ottawa, June 2022.

**Trends in conceptions of progress and well-being**, Global Young Academy Annual General Meeting (online), June 2022.

**Life satisfaction econometrics: Are we under-estimating the returns to education and income?**, ISQOLS annual meeting, 2020.

**Wellbeing, sustainability, and progress: what’s needed to help governments be accountable to human experience?**, ISQOLS annual meeting, 2020.

**Future global scenarios for human life evaluations: Happiness in 2050**, Candian Economics Association annual meetings, Banff, May 2019.

**Will Beijing’s ban on household coal burning improve air quality and well-being?** (coauthors: Jill Baumgartner, Ellison Carter, Brian Robinson), Canadian Resource and Environmental Economics Study Group Annual Conference, Université du Québec à Montréal September 2018.

**Do the Less Educated Report Higher Life Satisfaction?: Response Scales, Focal Values, and Mis-Measurement of Subjective Well-Being**, American Economics Association annual meeting, Chicago, January 2017.

**Estimating local road network connectivity at high resolution for all roads on planet Earth**, 65th Annual North American Meetings of the Regional Science Association International, Vancouver, 10 Nov 2017

**Road network sprawl: a global, dynamic analysis**, 65th Annual North American Meetings of the Regional Science Association International, Vancouver, 10 Nov 2017

**Three critiques of the econometrics of happiness: Are we underestimating the returns to education and income?**, International Atlantic Economics Society meetings, Montreal, Oct 2017.

**Do the less educated report higher life satisfaction?: response scales, focal values, and mis-measurement of SWB**, CRDCN Conference, 31 October – 1 November 2016, Saskatoon.

**Measuring progress and well-being: A comparative review of indicators**, 2016 Impact Summit, September 2016, Washington, DC.

**Korea’s rapid growth and rapid rise in happiness: are they related?**, Canadian Economics Association annual meeting, Ottawa, June 2016.

**Short-Run Household, Industrial, and Labour Impacts of the Québec Carbon Market**, Canadian Resource and Environmental Economics Study Group Annual Conference, University of Sherbrooke, October 2015.

**Life satisfaction and domain satisfactions amid rapid economic growth: the case of South Korea**, European Survey Research Association conference, Reykjavik, July 2015.

**Moving beyond the discrete response in subjective scale survey questions**, European Survey Research Association conference, Reykjavik, July 2015.

**Quantity or quantile? A global study of income, status, and happiness**, Canadian Economics Association annual meeting, Vancouver, May 2014.

**Carbon pricing and endogenous directed change in urban form**, Beijing Forum, Beijing, November 2013.

**Québec’s Quiet Happiness Revolution Continues**, Canadian Economics Association 47th Annual Conference, Montréal, June 2013.

**Carbon pricing and the path-dependence of urban sprawl** (with Adam Millard-Ball), Association of Environmental and Resource Economists 3<sup>rd</sup> Annual Summer Conference, Banff, Canada, June 2013.

**“Sprawl in urban form: path-dependence and climate policy”**, Merging Theory into Practice: Ecological Urban Design, Universitas 21 Early Career Researchers Workshop, Shanghai Jiao Tong University, Shanghai, December 2012.

**“Relative income and happiness: A global study”**, International Society for Ecological Economics, Rio de Janeiro, June 2012.

**Economic inequality and subjective well-being**, Canadian Economics Association annual meeting, Ottawa, June 2011.

**Measuring well-being through repeated cross sections: the case of the Québec convergence, 1985–2008**, Canadian Economics Association annual meeting, Montreal, June 2010.

**Sustainable well-being and relative consumption effects beyond income**, SIRE workshop on Well-being, happiness and the environment, Stirling, UK, April 2010.

- Barrington-Leigh, C. P., **Life satisfaction, income, and sustainability**, Canadian Economics Association annual meeting, Toronto, June 2009.
- Veblen goods and neighbourhoods: endogenising consumption reference groups**, Canadian Economics Association annual meeting, Vancouver, June 2008.
- Empathy and emulation: life satisfaction and the urban geography of Veblen effects**, Canadian Economics Association annual meeting, Halifax, Nova Scotia, June 2007; also presented at the North American Regional Science Council meetings, Savannah, Georgia, USA, November 2007; and at Statistics Canada's Socioeconomic Conference Ottawa, 2008.
- Smith David, Liliana Lopez, R. P. Lin, C. P. Barrington-Leigh, **RHESSI Observations of Terrestrial Gamma-ray Flashes**, URSI National Meeting, Boulder, Jan 2005.
- Barrington-Leigh, C. P., V. P. Pasko, and U. S. Inan, **Non-spectral measurements of ionization processes in sprites**, URSI General Assembly, Maastricht, Netherlands, August 2002. [Presented by V. P. Pasko.]
- Barrington-Leigh, C. P., **Terrestrial Gamma-ray Flashes After CGRO: Prospects From HESSI**, *EOS Trans. AGU*, 82, 47, 2001.
- Barrington-Leigh, C. P. and U. S. Inan, **Unusually Intense Sprite Events Studied with Video, Photometry, and ULF/ELF/VLF Recordings**, 2000 URSI National Radio Science Meeting, Program and Abstracts, p. 177, Boulder, Colorado, January 4-8, 2000. [INVITED]
- Barrington-Leigh, C. P., U. S. Inan and M. Stanley, **Elves: Photometric and Video Signatures**, *EOS Trans. AGU*, 80, 46, 1999.
- Barrington-Leigh, C. P. and U. S. Inan, **High Speed Photometric Measurements of Thunderstorm Energetic Coupling to the Mesosphere and Lower Ionosphere**, URSI General Assembly, August 1999, Toronto, Canada.
- Barrington-Leigh, C. P., U. S. Inan, E. A. Gerken, **Temporal and Spatial Structure of Sprites: Photometric and CCD Observations**, *EOS Trans. AGU*, 79 1998.
- Brook, M., M. Stanley, P. Krehbiel, W. Rison, C. B. Moore, C. P. Barrington-Leigh, D Suszcynsky, T Nelson, W Lyons, **Correlated Electric Field, Video, and Photometric Evidence of Charge Transfer Within Sprites**, *EOS Trans. AGU*, 78 1997.
- Barrington-Leigh, C. P., M. Stanley, U. S. Inan, **Fast multi-channel photometry, broadband sferics, and intensified video observations of sprites and elves over southwestern United States and Mexico**, *EOS Trans. AGU*, 78 1997. [Presented by U. Inan]
- Inan, U. S., C. P. Barrington-Leigh, S. Hansen, V. S. Glukhov, T. F. Bell, and R. Rairden, **Rapid Lateral Expansion of Optical Luminosity in Lightning-Induced Ionospheric Flashes Referred to as 'Elves,'** *EOS Trans. AGU*, 77, 46, 1996.
- Barrington-Leigh, C. P., et al., **The Fly's Eye: A High-speed Photometric Array to Measure the Sub-millisecond Dynamics of Sprites and Elves**, *EOS Trans. AGU*, 77, 46, 1996.
- Paularena, K. I., Barrington-Leigh, C. P., and Lazarus, A. J., **IMP-8 Solar Wind Parameters over Two Solar Cycles**, *EOS Trans. AGU*, 74, 485, 1993.

#### Invited policy articles

- Barrington-Leigh, C. P., **"Contribution to 'Roundtable on Money,'"** Great Transition Initiative, Aug 2017.
- Barrington-Leigh, C. P., **"Author's Response — Sustainability and Well-Being: A Happy Synergy,"** Great Transition Initiative, Apr 2017.
- Barrington-Leigh, C. P., **"Sustainability and Well-Being: A Happy Synergy,"** *Development*, Vol. 59, No. 3, pp 292–298, July 2017 (also published by Great Transition Initiative, Apr 2017.)
- Barrington-Leigh, C. P., **"The Beginning of the End of Sprawl,"** *Public Sector Digest*, Dec 2015. (10 pages)

Barrington-Leigh, C. P., “How does the ability to measure aggregate human happiness impact policy?”, *Arts Insights*, Summer 2013, p. 9.

## Policy briefs

Millard-Ball, A., Silverstein, B., Kapshikar, P., Stevenson, S., and Barrington-Leigh, C. **Dividing Highways: Barrier Effects and Environmental Justice in California** UCLA: Institute of Transportation Studies, 2022.

Millard-Ball, A., Silverstein, B., Kapshikar, P., Stevenson, S., and Barrington-Leigh, C. **Barrier Effects of Freeways for Pedestrian and Bicycle Travel** UCLA: Institute of Transportation Studies, 2022.

Barrington-Leigh, C. P., **Review of Department of Finance Canada’s *Toward a Quality of Life Strategy for Canada***, June 2021.

Barrington-Leigh, C. P., **How does the science of wellbeing inform an education strategy across the life course?**, March 2021.

Barrington-Leigh, C. P., **How can sustainability enter a budgeting framework for human wellbeing?**, August 2020.

Barrington-Leigh, C. P., **Has COVID changed everything? Opportunities and priorities in the pandemic and recovery**, August 2020.

Barrington-Leigh, C. P., **Integrating a wellbeing budgeting framework with existing priorities and commitments**, July 2020.

Barrington-Leigh, C. P., **What would a pan-jurisdictional wellbeing-budgeting framework look like?**, July 2020.

## Reports

“Evaluation of life-cycle greenhouse gas emissions involved in online purchase versus in-store purchase of MEC goods”, a report produced and presented to Mountain Equipment Co-op management, March 2008.

“Searching for the Good Life in a Carbon Neutral BC: Meeting BC’s Greenhouse Gas Reduction Targets with Fairness and Equity”, Climate Justice Project Discussion Paper, Canadian Centre for Policy Alternatives, Feb 2008. (Contributor)

“Response to the draft Terms of Reference for the Environmental Assessment of the Port Mann Bridge / Highway 1 portion of the B.C. government’s Gateway Program”, report for the *Civil Society Development Project*, Dec 2006.

“Accountability and targets in the B.C. government’s Gateway Program”, report for the *Civil Society Development Project*, May 2006.

Abela, Marc, et al. Ra: The Sun for Science and Humanity, *International Space University*, 1996.

## Op-eds

Barrington-Leigh, C. P., “Time to unfriend Facebook’s ad strategy”, *Toronto Star*, 13 April 2018.

Barrington-Leigh, C. P., “Social media’s power demands an advertising rethink”, *Hamilton Spectator*, 15 April 2018.

Barrington-Leigh, C. P., “Politique du bonheur : Ça fonctionne !”, *La Presse*, for “100 idées pour améliorer le Québec un coup de pouce à l’économie”, 18 March, 2018.

Barrington-Leigh, C. P., “Canada well on its way to a renewable-energy future”, *The Globe and Mail*, 24 December 2016.

Lovejoy, Shaun, Christopher Barrington-Leigh, and Darin Barney, “McGill must divest its endowment fund of fossil fuels”, *Montreal Gazette*, 10 February, 2015.

Darin Barney, Christopher Barrington-Leigh, Richard Janda, and Shaun Lovejoy, “McGill doit sortir des énergies fossiles”, *Le Devoir*, 10 February, 2015.

Barrington-Leigh, C. P., “Quebec attitude changing — for the better”, *Montreal Gazette*, 30 December, 2012.

Barrington-Leigh, C. P., “Le bonheur québécois”, *La Presse*, 26 November 2012.

- Barrington-Leigh, Christopher, Anthony Harris, John Helliwell, and Haifang Huang, “International evidence on the social context of wellbeing”, *VOX*, 24 April 2010. <http://voxeu.org/index.php?q=node/4924>
- Keeling, Paul and Christopher Barrington-Leigh, “Greenwashing Gateway”, *The Tyee*, 19 March 2007.
- Ardiel, Jennifer, Christopher Barrington-Leigh and Katherine Muncaster, “Finding a plug for carbon leaks”, *The Toronto Star*, 3 December 2005.