

## Andréanne Chu Breton-Carbonneau

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### EDUCATION

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- 2020-2025 **PhD (Cum Laude), Environmental Science & Technology**, Barcelona Lab for Urban Environmental Justice and Sustainability (BCNUEJ), Institut de Ciència i Tecnologia Ambientals (ICTA), Universitat Autònoma de Barcelona (UAB), Spain  
**Supervisors:** Isabelle Anguelovski, Helen V.S. Cole, Margarita Triguero-Mas
- 2017-2019 **MSc (Merit), Public Health**, London School of Hygiene and Tropical Medicine (LSHTM), University of London, UK  
**Supervisors:** Mariana Siapka and Triantafyllos Pliakas
- 2016-2017 *École Polytechnique, Université de Montréal, Canada.*  
*Completed 10/15 credits toward a research-based MSc, Biomedical Engineering*
- 2013-2016 **BSc, Agricultural and Environmental Science**, McGill University, Canada  
**Supervisors:** John Hanrahan and Lucia Gregorio Teruel

### RESEARCH INTERESTS

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I study the social, institutional, and political processes that shape just, resilient, and healthy cities. My research focuses on climate change adaptation, housing justice, and health equity, with particular attention to how procedural justice and community-based action influence urban transformation. I'm especially interested in how vulnerability and resilience are (re)produced through governance structures, planning systems, and civic participation.

### ACADEMIC JOURNAL ARTICLES (PEER-REVIEWED)

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**Breton-Carbonneau, A.C.**, Anguelovski, I., Calderón- Argelich, A., Etxeberria, E., Oscilowicz, E., Shokry, G., Hannuschke, L., Lown, J., Wu, E., Pansuriya, D., Tweneh, A.K., Williams, P.C., Triguero-Mas, M. Cole, H.V. (forthcoming). Governing Urban Climate Justice: Community engagement, climate justice, and housing in Boston and Barcelona.

Anguelovski, I., Shokry, G., Oscilowicz, E., Caldron-Argelich, A. Best, K., **Breton-Carbonneau, A.C.** (forthcoming in CITY). Climate (Im)mobilities Justice and the Gentrification of Resilience: Displacement, Displaceability, Survival, and Place Protection in the Climate Crisis

Calderón-Argelich, A., Anguelovski, I., Etxeberria, E., Hannuschke, L., **Breton-Carbonneau, A.C.**, López-Gay, A., Shokry, G., Oscilowicz, E., Lown, J., Williams, P.C., Lacort, E., Campos, M. (forthcoming in *Journal of City Climate Policy and Economy*). Co-mapping vulnerability to climate gentrification in the context of urban heat: A participatory index at the metropolitan scale.

**Breton-Carbonneau, A.C.** (2025). Participatory content analysis: Participatory research methods for sustainability – toolkit #12. *GAIA*, 34/1.

**Breton-Carbonneau, A.C.**, Anguelovski, I., Triguero-Mas, M., & Cole, H. V. S. (2025). Just urban greening for climate adaptation & health equity planning: Lessons learned from 5 cities in the Global North. *Cities*, 158.

**Breton-Carbonneau, A.C.**, Anguelovski, I., O'Brien, K., Echevarría-Ramos, M., Fina, N., Genty, J., Seeder, A., Binet, A., Williams, P. C., Cole, H. V. S., & Triguero-Mas, M. (2024). Exploring ownership of change and health equity implications in neighborhood change processes: A community-led approach to enhancing just climate resilience in Everett, MA. *Health & Place*, 89.

## ACADEMIC REPORTS AND PRESENTATIONS

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### Academic Theses

**Breton-Carbonneau, A.** (2025). Beyond the Checklist: Foundational Justice and Institutional Transformation in Participatory Climate, Housing, and Health Governance. Doctoral Thesis. Universitat Autònoma de Barcelona.

**Breton-Carbonneau, A.** (2019). A systematic review of climate change adaptation strategies in addressing urban environmental health disparities in the US. Masters Thesis. London School of Hygiene & Tropical Medicine.

### Academic Presentations

**Breton-Carbonneau, A.C.** Echevarría-Ramos, M.(2024) *Exploring Ownership of Change & Health Equity Implications in Neighborhood Change Processes*. International Conference on Urban Health (ICUH), Marrakech, Morocco.

**Breton-Carbonneau, A.C** (2024) *Exploring Ownership of Change & Health Equity Implications in Neighborhood Change Processes*. Urban Transitions, Sitges, Spain.

Calderón-Argelich, A., Etxeberria, E., **Breton-Carbonneau, A.C.** (2024) *Vulnerability index to climate gentrification: Metropolitan areas of Barcelona*. ClimateJusticeReady Barcelona-Boston

Exchange Workshop. Oral Presentation. Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona (ICTA-UAB). Cerdanyola del Vallès, Spain.

**Breton-Carbonneau, A.C.** (2024) *Alphabet of Justice: O is for Ownership*. Panel Presentation. Growth vs. Climate Conference. Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona (ICTA-UAB). Cerdanyola del Vallès, Spain.

**Breton-Carbonneau, A.C.** (2023). *From exclusion to empowerment: the role of urban governance & greening in promoting health equity*. ICTA Winter Symposium. Oral Presentation. Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona (ICTA-UAB). Cerdanyola del Vallès, Spain.

**Breton-Carbonneau, A.C.** (2022) *Urban greening for climate adaptation and health: Lessons learned from 5 cities in the Global North for equitable greening and preventing unintended health consequences*. International Conference on Urban Health (ICUH), València, Spain.

**Breton-Carbonneau, A.C.** (2022). *In pursuit of healthy, just, and climate adaptive cities: presentation of doctoral research plan*. ICTA PhD Webinar Series. Oral Presentation. Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona (ICTA-UAB). Virtual.

**Breton-Carbonneau, A.C.** (2021). *In pursuit of healthy, just & climate adaptive cities: ideas for collaboration*. Internal Collaboration Series. Oral Presentation. MIT Healthy Neighborhoods Study Research Consortium (HNRC) and the Barcelona Laboratory for Urban Environmental Justice (BCNUEJ). Virtual.

**Breton-Carbonneau, A.** and Bunzey J. (2016). *Biofilm production on stainless steel piping material*. Summer Internship Poster Session. Poster Presentation. Pfizer, Inc. Andover, USA.

**Breton-Carbonneau, A.**, Gregorio-Teruel L, and Hanrahan J. (2016). *Characterization of human keratinocyte proliferation and differentiation using K<sup>+</sup> channel blocker*. U3 Final Research Project Panel. Oral Presentation. McGill University, Faculty of Agricultural and Environmental Sciences, Life Sciences Program. Montréal, Canada.

**Breton-Carbonneau, A.** and Bunzey J. (2015). *Water holding for bioburden testing in quality control*. Summer Internship Poster Session. Poster Presentation. Pfizer, Inc. Andover, USA.

## PRACTITIONER REPORTS AND PRESENTATIONS

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### Practitioner Reports

**Breton-Carbonneau, A.** Gabra, M., Tanta-Quidgeon, K.M. (2024). *Medford Connects Story Map*. Municipal Vulnerability Preparedness Program. City of Medford, Medford Connects Initiative.

**Breton-Carbonneau, A.** (2024). *Community Engagement Team System and Workflow*. City of Medford, Board of Health, Office of Prevention and Outreach. Internal Planning Document.

**Breton-Carbonneau, A.** (2023). *Toward an Interconnected Resilience Network: Strategic Priorities for Substance Misuse Prevention, Health Equity, and Socio-Ecological Well-being*. City of Medford, Board of Health, Office of Prevention and Outreach. Internal Planning Document.

**Breton-Carbonneau, A.** (2022). *Logic Model: An Interconnected Resiliency Network for Substance Misuse Prevention*. City of Medford, Board of Health, Office of Prevention and Outreach. Internal Planning Document.

Jacobsons, H., Newman, J., de la Parra, L. **Breton-Carbonneau, A.** (2022). *Climate Action and Adaptation Plan*. City of Medford, Office of Planning, Development, and Sustainability.

**Breton-Carbonneau, A.** Gabra, M., Goldfarb, M., Fischer, R. (2021). *Toolkit: Relationship Mapping, Partner Building*. Mystic Valley Public Health Coalition (MVPHC). Internal Planning document.

**Breton-Carbonneau, A.** (2021). *Report: Diversity, Equity, and Inclusion in Lynnfield*. City of Lynnfield, Healthy Lynnfield. Internal Report.

**Breton-Carbonneau, A.** (2021). *Guide: Navigating Food Access Services*. City of Medford, Board of Health.

**Breton-Carbonneau, A.** (2020). *Report: Addressing the SNAP Gap*. City of Medford, Board of Health.

**Breton-Carbonneau, A.** (2020). *Report: Social Determinants of Addiction*. Massachusetts Opioid Abuse Prevention Collaborative (MOAPC). Internal Planning Document.

**Breton-Carbonneau, A.,** Griffiths, A. (2020). *Resilient Medford, Resilience Hubs*. Municipal Vulnerability Preparedness Program. City of Medford, Board of Health.

**Breton-Carbonneau, A.** (2019). *Community Health Needs Assessment*. Mass in Motion Program. City of Everett, Energize Everett. Internal Planning Document.

Ondras M., **Breton-Carbonneau A.,** McGivern S., O'Connor M. (2019). *Medford Food Security Plan*. City of Medford, Board of Health.

Practitioner Presentations

**Breton-Carbonneau, A.C.,** Dhingra, C.(2025) *City of Medford Community Liaison Program*. FY25 Winter Webinar Series. Massachusetts Executive Office of Energy and Environmental Affairs (EEA). Virtual.

**Breton-Carbonneau, A.C.,** Dhingra, C.(2024) *Lessons Learned from the Community Liaison Pilot*. Lunch and Learn Series. Municipal Vulnerability Preparedness Program, Massachusetts Executive Office of Energy and Environmental Affairs (EEA). Virtual.

**Breton-Carbonneau, A.C.,** Dhingra, C.(2023) *How Medford is Building Social Resilience to Climate Change*. Bi-Annual Medford Connects Network Meeting. City of Medford, Board of Health, Office of Prevention and Outreach. Virtual.

Ertilien, S., **Breton-Carbonneau, A.C.** (2022). *The Key Role of Faith Leaders in Culturally Competent Connections to Care*. Webinar. Oral Presentation. City of Medford Behavioral Health Commission. Virtual.

**Breton-Carbonneau, A.C.,** Sullivan, D. (2022). *Medford Food Justice Council: Startup Planning*. Pitch to Massachusetts Rep. Garballey. Oral Presentation. Medford Food Security Taskforce. Virtual.

**Breton-Carbonneau, A.C.** (2021). *Culturally Competent Connections to Care: Findings from Listening Sessions*. Webinar. Oral Presentation. Massachusetts Department of Public Health (DPH), Bureau of Substance Addiction Services (BSAS). Virtual.

Mills, J., Sullivan, D., **Breton-Carbonneau, A.C.** (2021). *Design Justice: Integrating Lived Expertise*. Panel Presentation. Code for America Summit. Washington D.C., USA.

**Breton-Carbonneau, A.** (2021) *Community Case Study: Enhancing Opportunities for Socially Vulnerable Populations to have "A Seat at the Table" in Climate Resilience Planning*. Weathering Change Webinar Series. Oral Presentation. Center for Climate Preparedness and Community Resilience, Antioch University of New England. Virtual.

**Breton-Carbonneau, A.** Funaiolo, P. (2020). *From Risk to Resiliency: Climate and Community Resilience in Medford*. Big Table and Community Conversations. Oral Presentation. Medford Health Matters. Virtual.

**Breton-Carbonneau, A..** (2020). *Review of the 2020 SNAP Gap Report*. Planning Meeting. Oral Presentation. Medford Food Security Taskforce. Virtual.

**Breton-Carbonneau, A.** (2020). *Review of the 2020 SNAP Gap Report*. School Committee Meeting of the Whole. Oral Presentation. City of Medford School Committee. Virtual.

**Breton-Carbonneau, A.**, Fischer, R. (2020). Social determinants of health: substance use. Core Planning Meeting. Oral Presentation. Mystic Valley Public Health Coalition (MVPHC). Virtual.

McGivern, T.J., **Breton-Carbonneau, A.** (2018). *Inclusive Community Gardens in the City of Medford, Massachusetts*. The Community Health Inclusion Index (CHII) in Practice Webinar Series. Oral Presentation. National Association for County and City Health Organizations (NACCHO). Virtual.

#### ACADEMIC AWARDS AND RECOGNITION

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2022	<i>Emerging Scholar Fellowship Grant</i> <b>MIT Healthy Neighborhood Study</b>
2021-2024	<i>Investigador Predoctoral en Formació (FI) Scholarship</i> <b>Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)</b>
2016	<i>Biomedical Engineering Research Scholarship</i> <b>Groupe de Recherche en Sciences &amp; Technologies Biomédicales</b>
2013	<i>Undergraduate Summer Research Fellowship Grant</i> <b>American Physiological Society</b>

#### SUCCESSFUL PRACTITIONER GRANT APPLICATIONS

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2024	<i>Medford Board of Health</i> <b>Climate Resilience, Barr Foundation</b> \$500,000
2024	<i>Medford Board of Health</i> <b>Municipal Vulnerability Preparedness Grant, MA EEA</b> \$750,000
2023	<i>Malden Overcoming Addiction</i> <b>Peer Recovery Support Centers, MA DPH BSAS</b> \$2.94 M
2022	<i>Medford Board of Health</i> <b>Accelerating Climate Resilience, MAPC</b> \$30,000

- 2022 *Medford Board of Health*  
**Municipal Vulnerability Preparedness Grant, MA EEA**  
 \$417,000
- 2021 *Mystic Community Market*  
**State House Earmark for Community-Led Food Justice Council**  
 \$15,000
- 2020 *Mystic Valley Public Health Coalition*  
**Strategy Implementation for Youth SUP (Part B), MA DPH BSAS**  
 \$1 M
- 2020 *City of Medford, Board of Health*  
**Innovation and Promising Practices for SUP (Part C), MA DPH BSAS**  
 \$300,000
- 2020 *Medford Board of Health*  
**Community Health Improvement Grant MelroseWakefield Hospital**  
 \$53,500
- 2020 *Medford Board of Health*  
**Municipal Vulnerability Preparedness Grant, MA EEA**  
 \$202,500
- 2019 *Medford Board of Health*  
**Municipal Vulnerability Preparedness Grant, MA EEA**  
 \$65,250
- 2019 *Medford Board of Health*  
**Community Health Improvement Grant, Winchester Hospital**  
 \$15,000

#### RESEARCH EXPERIENCE

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- 2025-Pres Postdoctoral Researcher  
**Barcelona Laboratory for Urban Environmental Justice (BCNUEJ), ICTA-UAB,**  
 Barcelona, Spain
- Lead of the qualitative research work package for the *ReHousIn* (Horizon Europe) project, analyzing green transition-related housing inequalities across 27 municipalities in 9 European countries.

- 2025 Technician  
**Barcelona Laboratory for Urban Environmental Justice (BCNUEJ), ICTA-UAB,**  
 Barcelona, Spain
- Supported the *ReHousIn* (Horizon Europe) project by coordinating key work package tasks, including managing a web documentary, developing workshop materials for 10 partner universities, facilitating interview logistics, and ensuring project continuity during staff transitions.
- 2020-2025 Doctoral Researcher  
**Barcelona Laboratory for Urban Environmental Justice (BCNUEJ), ICTA-UAB,**  
 Barcelona, Spain
- Combined institutional ethnography, participatory action research, and cross-city policy analysis to examine how procedural justice shapes equitable urban transformation across climate resilience, housing justice, and health equity. Advanced the concept of *foundational justice* to theorize justice as an infrastructural condition of planning.
- 2019 Graduate Research Assistant  
**Northeastern Environmental Justice Research Collaborative (NEJRC),** Boston, MA
- Researched the global ‘circle of poison’ through analyzing federal US policy in regard to the agrochemical industry and the global pesticide trade.
- Summer 2018 Graduate Research Analyst  
**Massachusetts General Hospital, Health Disparities Unit,** Boston, MA
- Analyzed literature on socioeconomic and neighborhood context for mental health outcomes for Latinx populations living in the Bronx, NYC.
- 2017-2019 Clinical Research Coordinator II  
**Massachusetts General Hospital, Clinical Trials Network & Institute (CTNI),**  
 Boston, MA
- Coordinated multi-center, psychiatric clinical trials within ‘Good Clinical Practices’. Communicated trial information and results to hospital management, physicians, and pharmaceutical executives.
- Summer 2017 Public Health Intern  
**City of Medford, Board of Health** Medford, MA
- Performed data entry and analysis for “Community Needs Assessment and Root Cause Analysis”. Coordinated Medford Food Security Task Force meetings.

- 2016-2017 Graduate Research Assistant  
**École Polytechnique, Dept of Biomedical Engineering**, Montréal, Canada  
 Researched and developed a chitosan-based formulation to treat osteoarthritis.
- Summer 2016 *Microbiology Intern*  
**Pfizer, Inc.**, Andover, MA  
 Researched bacterial resistance of different bacterial species and strains on piping materials in manufacturing suites.
- 2015-2016 *Undergraduate Research Assistant*  
**McGill University, Department of Physiology** Montréal, Canada  
 Researched the effects of potassium-channel blocker on keratinocyte activity between young and aged human skin samples.
- Summer 2015 *Microbiology Intern*  
**Pfizer, Inc.**, Andover, MA  
 Optimized key 'Standard Operating Procedures' for routine quality control protocols to increase safety and efficiency.
- 2013-2015; Summer 2014 *Animal Care Attendant*  
**McGill University, Centre for Comparative Medicine**, Montréal, Canada  
 Responsible for animal husbandry, including feeding and cage changes. Performed basic veterinary care and monitored overall health status of animals.
- Summer 2013 *Undergraduate Research Fellow*  
**Mass General Hospital / Harvard University, Center for Systems Biology**, Boston, MA  
 Researched and characterized the effects of anti-IL-1b therapy on mouse hearts that underwent myocardial infarction. Studied epithelial cell morphology in mouse epididymis.

#### PRACTITIONER EXPERIENCE

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- 2020-Pres Founder and Principal Consultant  
**ACBC Consulting**, Remote  
 Lead an equity-driven strategy and service design firm supporting governments, nonprofits, and planning firms on participatory planning, climate resilience, and public health initiatives. Oversee business development, project execution, and

interdisciplinary team management. Translate community knowledge into actionable strategies that advance equity, accessibility, and institutional change.

Clients have included: City of Medford, City of Chelsea, City of Boston, City of Everett, Town of Acton, Town of Lynnfield, State of Massachusetts, Mystic Valley Public Health Coalition, Malden Overcoming Addiction, Mystic River Watershed Association, Linnean Solutions, and 3x3 Design.

2019      Mass in Motion Program Consultant  
**City of Everett, Energize Everett, Everett, MA**

Coordinated “Community Needs Assessment and Root Cause Analysis” and facilitated training on racial justice and health equity for municipal officials. Developed Energize Everett’s Mass in Motion FY20 Work Plan, informally awarded best work plan of the fiscal year.

2019      Mass in Motion Program Consultant  
**City of Medford, Board of Health, Medford, MA**

Managed public health planning for equitable access to healthy food, opportunities for physical activity, and climate resilience. Wrote grant proposals to support racial, environmental, and food justice in Board of Health work.

2017-2018      Inclusive Community Garden Consultant  
**City of Medford, Board of Health Medford, MA**

Analyzed planning policies for the built environment. Surveyed and interviewed the disability community. Developed inclusion guidelines with the Community Health Inclusion Index, passed by resolution by the Medford Community Garden Commission.

#### SERVICE ACTIVITIES

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2019-2020      *Outreach and Advocacy Coordinator*  
**Medford Food Security Task Force, Medford, MA**

Piloted the Greater Boston Food Bank Hunger Free by 2028 campaign in Medford to engage all areas of community in food accessibility. Urged for SNAP/EBT acceptance at local food retailers.

2019-2020      *Greenovate Ambassador*  
**City of Boston, Dept of Environment, Boston, MA**

Managed Interdepartmental Engagement Initiative to promote consideration of history, context, and environmental health implications in decisions.

Advocated for community-driven planning. Co-coordinated Housing Justice and Food Forest Initiatives.

2019

*Outreach Ambassador*

**Mystic River Watershed Association (MyRWA)**, Arlington, MA

Brainstormed outreach and tabling activities. Tabled at community events throughout the year to highlight MyRWA's "equitable, community-driven" climate resiliency planning.

2018-2019

*Greenovate Leader*

**City of Boston, Dept of Environment**, Boston, MA

Facilitated 'Gender Equity and Climate' roundtable discussion. Hosted incoming Leaders training and facilitated action planning to engage residents in climate action.

2017-2019

*Community Representative*

**Medford Food Security Task Force**, Medford, MA

Supported survey and data collection efforts for municipal food plan.

2017

*Social Media Volunteer*

**American Red Cross of Massachusetts**, Cambridge, MA

Communicated public health messaging via multiple social media platforms.

2016-2017

*Vice President of Internal Affairs*

**Association des Étudiants des Cycles Supérieurs Polytechnique**, Montréal, Canada

Coordinated graduate student resources and services for low-income and immigrant students. Managed recreational and social activities. Chaired Needs-Based Grant committee.

## SKILLS AND TRAINING

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- **Qualitative Methods:** Experienced in ethnography, institutional ethnography, participatory action research (PAR), stakeholder interviews, focus groups, and workshop facilitation
- **Data Analysis:** Familiar with STATA, R, and QGIS for spatial and statistical analysis; experienced with qualitative analysis tools including Atlas.ti, NVivo, and Dedoose
- **Policy and Planning Tools:** Climate vulnerability assessments, community health assessments, equity-centered community engagement frameworks, participatory planning methodologies, strategic planning and logic models

- **Capacity Building:** Experienced in designing and delivering workshops, training sessions, and community-led curricula on climate resilience, health equity, and participatory planning
- **Public Engagement & Visualization:** Skilled in developing accessible materials for non-academic audiences; experienced with participatory design tools and visual storytelling
- **Project Management:** Experienced in managing multi-partner, grant-funded projects across academic, nonprofit, and municipal settings; skilled in budget tracking, reporting, and stakeholder coordination
- **Reference Management:** Proficient in Zotero and EndNote
- **Productivity Tools:** Proficient in Microsoft Office (Word, Excel, PowerPoint) and Google Workspace (Docs, Sheets, Slides)
- **Collaboration & Communication:** Skilled in Slack, Microsoft Teams, Miro, Canva, ClickUp, and Notion
- **Research Ethics Training:** Certified by the Collaborative Institutional Training Initiative (CITI Program), 2017
- **Languages:** English (native), proficient French, basic Spanish and Catalan