

# Patrick Hayes, CV

Aspiration Postdoctoral Fellow, University of Victoria

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## Bio

As a marine environmental historian, I study the state of past oceans and our evolving relationship with them. By studying the historical records, I aim to understand the scale and nature of fishing practices in different periods, shedding light on the exploitation and management of marine resources throughout history. This research has direct present-day conservation and restoration benefits.

## Work History

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**Aug 2022 – Present**

**Aspiration Postdoctoral Fellowship**

*University Of Victoria, Victoria*

My current project is entitled 'Applying Digital Humanities to Recover Sustainable and Equitable Fisheries in British Columbia' and is focused on generating historical data and insights about key species in the region.

**Jan 2021 – June 2022**

**Postdoctoral Researcher, 4-Oceans Project**

*Trinity Centre For Environmental Humanities, Dublin, Ireland*

My main task as a researcher on the 4-Oceans project was to lead the design and implementation of a global review of existing primary and secondary sources related to historical human marine exploitation. This involved hiring and managing a team of 12 student researchers.

**Oct 2016 – Aug 2017**

**Graduate Research Assistant**

*Trinity Centre For Environmental Humanities*

## Education

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**Dec 2017 – Dec 2021**

**PhD, History**

*Trinity College Dublin, Ireland*

Thesis: *The History of Ireland's Marine Fisheries, 1500 to 1603.*

Research Project: The North Atlantic Fish Revolution: An Environmental History of the North Atlantic 1400-1700 (<https://www.tcd.ie/tceh/projects/norfish/>).

Supervisor: Professor Poul Holm.

**Sept 2014 – Nov 2015**      **Master of Philosophy, Early Modern History**  
Trinity College Dublin, Ireland  
Thesis: *The Old English in Meath, 1558-1641: Land Ownership, Grievance and Rebellion.*

**Sept 2010 – Aug 2014**      **Bachelor of Arts, History & English Literature**  
Trinity College Dublin, Ireland  
Research Dissertation: *A Statistical Interpretation of Changes in the Social Structure and Land Ownership in County Cavan, 1641 to 1670.*

## Peer-Reviewed Publications & Datasets

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### **In Review & Forthcoming**

Patrick Hayes, *Ireland's Sea Fisheries, 1400-1600: Economics and Environment* (Boydell & Brewer, in press, due for publication early 2024).

Poul Holm, Patrick Hayes, and John Nicholls, "Historical Marine Footprint for Atlantic Europe, 1500-2019," *Ambio: A Journal of Environment and Society*, under review (2023)

Cordula Scherer, Francis Ludlow, Al Matthews, Patrick Hayes, Riina Klais, and Poul Holm, "A Historical Plankton Index: Zooplankton abundance in the North Sea since 800 CE," *The Holocene*, under review (2023).

### **Published**

Poul Holm, Patrick Hayes, and John Nicholls, "Comment on 'Five Centuries of Cod Catches in Eastern Canada,'" *ICES Journal of Marine Science*, 79, no. 5 (2022)

Poul Holm, John Nicholls, Patrick Hayes, Josh Ivinson, and Bernard Allaire, "Accelerated Extractions of North Atlantic Cod and Herring, 1520-1790," *Fish and Fisheries* 23, no. 1. (2022).

Charles Travis, Francis Ludlow, Al Matthews, Kevin Lougheed, Kieran Rankin, Bernard Allaire, Robert Legg, Patrick Hayes, *et al.* "Inventing the Grand Banks: A Deep Chart," *Geo: Geography and Environment* 7, no. 1 (2020).

Nina Vieira, Patrick Hayes, and Al Matthews, "Facing Changes, Changing Targets: Sperm-Whale Hunting in Late Eighteenth-Century Brazil," *Environment & Society Portal, Arcadia* 44 (2019).

Patrick Hayes, Al Matthews, Bernard Allaire, and Poul Holm, "European Naval Diets in the Sixteenth Century: A Quantitative Method for Comparative and Nutritional Analysis," *Historical Methods: A Journal of Quantitative and Interdisciplinary History* 52, no. 4 (2019): 1-18.

Poul Holm, Francis Ludlow, Cordula Scherer, Charles Travis, Bernard Allaire, Cristina Brito, Patrick Hayes, et al. "The North Atlantic Fish Revolution (ca. AD 1500)," *Quaternary Research* (2019): 1-15.

## **Datasets**

Patrick Hayes, John Nicholls, Al Matthews, Bernard Allaire, and Poul Holm, "Historical Diets Database," The Trinity Centre for Environmental Humanities, 2019. <http://cehresearch.org/NavalDiets/navaldiets.php>.

Patrick Hayes, John Nicholls, Al Matthews, Bernard Allaire, and Poul Holm, "Historical Diets Database," The Trinity Centre for Environmental Humanities, 2019. <http://cehresearch.org/NavalDiets/navaldiets.php>.

## **Awards and Honors**

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| <b>2022</b>        | Aspiration Postdoctoral Fellowship, University of Victoria (\$50,000 for two years)                                   |
| <b>2016 – 2020</b> | ERC PhD Fellowship, ERC Advanced Grant 669461 (€96,000 + travel, equipment, and research expenses).                   |
| <b>2018</b>        | COST Action travel grant to OPP conference Bremerhaven, 21- 27 Oct 2018 (€1,116.95).                                  |
| <b>2018</b>        | Research secondment to the University of the Azores, CONCHA Project, 9 July – 9 Aug 2018 (€3,000.00).                 |
| <b>2018</b>        | COST Action travel grant to OPP Deep Time workshop Dingle Ireland, 8 Apr to 12 April 2018 (€675.98).                  |
| <b>2018</b>        | COST Action travel grant to Oceans Past VI Conference, Sesimbra Portugal, 15- 19 May 2017 (€1,200.00).                |
| <b>2017</b>        | COST Action Network Short Term Scientific Mission, to German Maritime Museum Bremerhaven, 1 – 6 Apr 2017 (€1,120.00). |
| <b>2016</b>        | COST Action travel grant to Chioggia, Italy, 2-5 Oct 2016 (€790.22).  |

## **Teaching Experience**

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| <b>2023</b> | <b>Sessional Lecturer</b> , School of History, University of Victoria.<br><u>Course</u> : HSTR 101E: The Environmental History of the World<br><br><i>Key Responsibilities</i> : Designed and delivered a full 12-week course on world environmental history to undergraduate students. As course coordinator, I managed a team of teaching assistants, wrote, and presented lectures, set assignments and mentored students. |
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- 2019 & 2022**      **Lecturer and Marking Assistant**, School of History and Humanities, TCD  
Course: HI1222 (2019) HIU12025 (2022): Climate in the Ancient and Medieval Worlds  
*Key Responsibilities*: Delivered weekly tutorials to first-year undergraduates and facilitated their understanding of key concepts through discussions of secondary and primary sources. Additionally, corrected end of term essays and delivered a lecture on the use of maps and GIS for marine history in 2022.
- 2018 – 2021**      **Lecturer**, School of History and Humanities, TCD  
Course Title: HI7064: Environmental History  
*Key Responsibilities*: Delivered yearly lecture on GIS methods and Irish marine history for master's students.
- 2019 – 2020**      **Lecturer and Course Co-Designer**, School of History and Humanities, TCD  
Course: HI7068: Parchment to Pixel: World History through Historical Maps and GIS  
*Key Responsibilities*: Alongside Dr Francis Ludlow, I supported the design and delivery of a twelve-week course on historical maps and the use of GIS technology in history. Every class had a theory and practical element where the students learned about historical maps and gained GIS skills.
- 2017 – 2019**      **Lecturer and Course Co-Designer**, School of History and Humanities, TCD  
Course: Geographic Information Systems and Historical Mapping  
*Key Responsibilities*: Supported design and delivery of a yearly seminar to teach Master's and PhD students how to utilize GIS software and Historical GIS techniques in their research. The class took place every December as part of the Digital Scholarship and Skills Workshop series.

## Presentations & Guest Lectures

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### Individual Conference Papers

Patrick Hayes, "Mapping the Environment and Economics of Ireland's Marine Fisheries, 1400 to 1600", Keynote address at Oceans Past IX, University of Washington, 23 June 2022.

Patrick Hayes, "The Environmental History of Ireland's Sea Fisheries in the Sixteenth Century", Panel Session, 'The North Atlantic Around 1500 CE: Ecology and Extractions', 3rd World Congress of Environmental History, Florianopolis, Brazil, 26 July 2019.

Patrick Hayes, "The Exploitation of Natural Resources in Early Modern Ireland: Evidence from Trade and Customs Records", Irish Quantitative History Group Annual Meeting, Trinity College Dublin, 25 Jan 2019.

Patrick Hayes, "The Impact of Piracy on Coastal Societies and Maritime Industry in Ireland, 1546- 1640", Oceans Past VII, Bremerhaven, Germany, 22 Oct 2018.

Patrick Hayes, "The Impact of Piracy on Fisheries and Trade in Irish and Adjacent Waters 1500- 1641", Deep Time Conference, Oceans Past Platform, Dingle, Ireland, 9 Apr 2018.

Patrick Hayes, "Extreme Weather and Piracy as Hazards to Maritime Activity in Irish and Adjacent Waters, 1536-1660", 8th Annual Marine Economics and Policy Research Symposium, NUI Galway, 1 Dec 2017.

Patrick Hayes, "Hazards to Marine Activity: Extreme Weather and Piracy in Irish and Adjacent Waters, 1535-1660", 7th Tudor & Stuart Ireland Conference, NUI Galway, 18 Aug 2017.

Patrick Hayes, "English Sources for Estimating the Scale of Irish Herring Fisheries in the Sixteenth and Seventeenth Centuries", Historical Ecology of Semi-Enclosed Basins: Past, Present and Future of Seas at Risk, Oceans Past Platform, Chioggia, Italy, 5 Oct 2016.

### **Collaborative Conference Papers**

Cordula Scherer, Francis Ludlow, Al Matthews, Patrick Hayes and Poul Holm, "Reconstructing the conditions of Ocean Productivity during 1400-1700CE", OPP VII, Bremerhaven, Germany, 26 Oct 2018.

Nina Vieira, Al Matthews, and Patrick Hayes, "Facing changes, changing targets: Sperm Whale hunting in Brazil in the late 18th century", OPP VII, Bremerhaven, Germany, 22 Oct 2018.

Victoria J Garnett, James Smith, Patrick Hayes and Richard Breen, "Finding our way: Experiences of using GIS as a pedagogical tool within a multi-disciplinary reading group", Spatial Humanities 2018, Lancaster University, UK, 21 Sept 2018.

Patrick Hayes, Al Matthews, Dara Fleming-Farrell, and Poul Holm, "European Naval Diets 1400- 1650: A Comparative & Nutritional Analysis", Space and Settlement in the Middle Ages VIII, Trinity Long Room Hub, 25 Mar 2017.

Charles Travis, Poul Holm, Francis Ludlow, Robert Legg, Kieran Rankin, and Patrick Hayes, "The NorFish Platform: Geographical Information Science, Data Visualization and Mapping Early Modern Coastal and Maritime Cultural Heritage", *Bayscapes: Shaping the Coastal Interface through Time*, Oceans Past Platform Conference, 23-25 May 2016.

### **Guest Lectures**

Patrick Hayes, "The North Atlantic Fish Revolution, c. 1500 – 1700AD", invited lecture for master's course *Methods and Debates in Environmental History*, Trinity College Dublin, 9 Nov 2021.

Patrick Hayes, "Visitors and Violence: Fisheries in Sixteenth Century Ireland", invited lecture for the Trinity Centre for Early Modern History Research Seminar Series, hosted online, 1 Nov 2021.

Patrick Hayes, "The Fish Revolution: North Atlantic and Oceanic Environmental History, 1500- 1700", guest lecture for undergraduate course EC4020 World Economy, History of the World Economy, Trinity College Dublin, 9 Nov 2018.

### **Public Events**

Patrick Hayes, "Ship's Biscuit and Beer: Naval Diet in the Early Modern Age", invited public lecture, hosted online for the Malahide Yacht Club, 21 Apr 2021.

Patrick Hayes, "The Exploitation of Natural Resources in Seventeenth Century Ulster: Evidence from the Ulster Port Books, 1612-15", Aspects Literary Festival 2018, Clondeboye Estate, Bangor, UK, 1 Sept 2018.

Patrick Hayes, "The Exploitation of Natural Resources in Seventeenth Century Ulster: Evidence from the Ulster Port Books, 1612-15", Aspects Literary Festival 2018, Clondeboye Estate, Bangor, UK, 1 Sept 2018.

## **Conferences Attended**

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Oceans Past IX "Historical Perspectives on Marine Ecosystems, Fisheries, and Futures", University of Washington, 22-25 June 2022.

3rd World Congress of Environmental History, Florianopolis, Brazil, 22-26 July 2019.

Irish Quantitative History Group Annual Meeting, Long Room Hub, Trinity College Dublin, 25 Jan 2019.

Tracing Human Interactions with Marine Ecosystems: Implications for Policy and Management, Oceans Past VII, Alfred Wegener Institute (AWI) and the German Maritime Museum, Bremerhaven, Germany, 22-26 Oct 2018.

Spatial Humanities 2018, Lancaster University, Lancaster, UK, 20-21 Sept 2018. Deep Time Workshop, Oceans Past Platform, Dingle, Ireland, 9-11 April 2018.

8th Annual Marine Economics and Policy Research Symposium, NUI Galway, 1 Dec 2017. 7th Tudor & Stuart Ireland Conference, NUI Galway, 18-19 August 2017.

Historical Perspectives on the Elements and Dynamics of the Marine Socio-Ecological System, Oceans Past Platform, Sesimbra, Portugal, 15-19 May 2017.

Space and Settlement in the Middle Ages VIII, Trinity Long Room Hub, Trinity College Dublin, 24-25 March 2017.

Irish Maritime History Conference, University College Cork, 25-26 Nov 2016. Ireland and the Caribbean Conference, Trinity Long Room Hub, 11 Nov 2016.

Historical Ecology of Semi-enclosed Basins: Past, Present, and Future of Seas at Risk, Oceans Past Platform, Chioggia, Italy, 3-5 Oct 2016.

Bayscapes: Shaping the Coastal Interface through Time, Trinity College Dublin, 23-24 May 2016.

American Society for Environmental History, Annual Conference, Seattle, Washington, 30 Mar – 3 Apr 2016.

## Skills

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Database design and use - Access and SQL	■ ■ ■ ■ ■ Excellent
Geographic Information Systems - ArcGIS & QGIS	■ ■ ■ ■ ■ Excellent
Qualitative Data Analysis	■ ■ ■ ■ ■ Excellent
Data analysis in Excel	■ ■ ■ ■ ■ Excellent

## Supplementary Courses/Training

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Pots and Bones Workshop, Organic Residue Analysis & Multi-Isotope Analysis, Trinity College Dublin Long Room Hub, 13 Oct 2019.

CHERISH 'Air and Earth 2' – Archaeological Aerial Surveying Methods, 5-6 June 2019. Certificate in Cartography MOOC, ERSI, 11 June 2018.

HH7023 Teaching and Learning Strategies in Histories and Humanities, Trinity College Dublin, Michaelmas Term 2018.

HH7024 Advanced Paleography 1300-1700, Trinity College Dublin, Michaelmas Term 2017.

Oceans Past Platform Training School, 'How to build and run a multi-disciplinary research team', Sesimbra, Portugal, 15-19 May 2017.

## Administrative Activities

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<b>2019 – 2021</b>	Postgraduate Representative, Board of the Trinity Centre for Environmental Humanities
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## Memberships & Honorary Positions

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<b>2022 – Present</b>	Associate Research Fellow, Trinity Centre for Environment Humanities.
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<b>2018 – Present</b>	Member, European Society for Environmental History
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## Professional Services

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Peer reviewer for *Ambio: A Journal of Environment and Society*,  
(<https://www.springer.com/journal/13280>).

Peer reviewer for *Historical Methods: A Journal of Quantitative and Interdisciplinary History* 2021  
(<https://www.tandfonline.com/journals/vhim20>).

Peer reviewer for *Journal of Food Ethics* 2019 (<https://www.springer.com/journal/41055>).

## Referees

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- Professor Poul Holm, Trinity College Dublin: [holmp@tcd.ie](mailto:holmp@tcd.ie).
- Professor Loren McClenahan, University of Victoria: [lorenm@uvic.ca](mailto:lorenm@uvic.ca).
- Professor Francis Ludlow, Trinity College Dublin: [ludlowf@tcd.ie](mailto:ludlowf@tcd.ie).