

IDENTIFYING INFORMATION:

NAME: Escobar, Isabel

ORCID iD: <https://orcid.org/0000-0001-9269-5927>

POSITION TITLE: Professor

PRIMARY ORGANIZATION AND LOCATION: University of Kentucky, Lexington, Kentucky, United States**Professional Preparation:**

| ORGANIZATION AND LOCATION | DEGREE (if applicable) | RECEIPT DATE | FIELD OF STUDY |
|---|---------------------------|----------------------|------------------------------|
| University of Central Florida, Orlando, FL, United States | DPHIL | 05/2000 | Environmental Engineering |
| US EPA STAR Fellowship, Orlando, Florida, United States | Fellow | 01/1997 - 05/2000 | Environmental Engineering |
| University of Central Florida, Orlando, Florida, United States | MS | 12/1996 | Environmental Engineering |
| University of Central Florida, Orlando, Florida, United States | BS | 12/1995 | Environmental Engineering |

Appointments and Positions

2015 - present Professor, University of Kentucky, Lexington, Kentucky, United States

2022 - present Chellgren Chair & Director of the Chellgren Center for Academic Excellence, University of Kentucky, Lexington, Kentucky, United States

2015 - present Associate Director, Center of Membrane Sciences, University of Kentucky, Lexington, Kentucky, United States

2011 - present Associate Editor, Environmental Progress and Sustainable Energy, AIChE, New York, New York, United States

2014 - 2015 Associate Dean of Research Development & Outreach, College of Engineering, University of Toledo, Toledo, Ohio, United States

2010 - 2015 Professor, University of Toledo, Toledo, Ohio, United States

2010 - 2014 Interim Assistant Dean of Research Development & Outreach, College of Engineering, University of Toledo, Toledo, Ohio, United States

2010 - 2011 Acting Director of Catharine S. Eberly Center for Women, University of Toledo, Toledo, Ohio, United States

2006 - 2010 Associate Professor, University of Toledo, Toledo, Ohio, United States

2000 - 2006 Assistant Professor, University of Toledo, Toledo, Ohio, United States

Products**Products Most Closely Related to the Proposed Project**

- Leonard B, Loh H, Lu D, Ogbuoji E, Escobar I, Sierros K, Sanyal O. Sustainable additive manufacturing of polysulfone membranes for liquid separations. *Journal of Physics: Energy*. 2024 January 22; 6(1):015021-. Available from: <https://iopscience.iop.org/article/10.1088/2515-7655/ad1ccc> DOI: 10.1088/2515-7655/ad1ccc

2. Ogbuoji E, Myers A, Haycraft A, Escobar I. Impact of common face mask regeneration processes on the structure, morphology and aerosol filtration efficiency of porous flat sheet polysulfone membranes fabricated via nonsolvent-induced phase separation (NIPS). *Separation and Purification Technology*. 2023 November; 324:124594-. Available from: <https://linkinghub.elsevier.com/retrieve/pii/S1383586623015022> DOI: 10.1016/j.seppur.2023.124594
3. Fionah A, McLarney K, Judd A, Escobar I. Effects of the Applied Potential on the Performance of Polysulfone Membranes Functionalized with Sulfonated Polyether Ether Ketone Polymers. *Membranes*. 2023 July 18; 13(7):675-. Available from: <https://www.mdpi.com/2077-0375/13/7/675> DOI: 10.3390/membranes13070675
4. Lu D, Babaniamansour P, Williams A, Opfar K, Nurick P, Escobar I. Fabrication and evaporation time investigation of water treatment membranes using green solvents and recycled polyethylene terephthalate. *Journal of Applied Polymer Science*. 2022 July 22; 139(35):- . Available from: <https://onlinelibrary.wiley.com/doi/10.1002/app.52823> DOI: 10.1002/app.52823
5. Ogbuoji E, Stephens L, Haycraft A, Wooldridge E, Escobar I. Non-Solvent Induced Phase Separation (NIPS) for Fabricating High Filtration Efficiency (FE) Polymeric Membranes for Face Mask and Air Filtration Applications. *Membranes*. 2022 June 21; 12(7):637-. Available from: <https://www.mdpi.com/2077-0375/12/7/637> DOI: 10.3390/membranes12070637

Other Significant Products, Whether or Not Related to the Proposed Project

1. Chede S, Anaya N, Oyanedel-Craver V, Gorgannejad S, Harris T, Al-Mallahi J, Abu-Dalo M, Abu Qdais H, Escobar IC.. Desalination using low biofouling nanocomposite membranes: From batch-scale to continuous-scale membrane fabrication. *Desalination*. 2019; 451:81-91. Available from: 10.1016/j.desal.2017.05.007
2. Dong XB., Shannon HD., Parker C, De Jesus S, Escobar IC.. Comparison of two low-hazard organic solvents as individual and cosolvents for the fabrication of polysulfone membranes. *AIChE journal*. American Institute of Chemical Engineers. 2019. Available from: 10.1002/aic.16790
3. Dong X, Shannon HD, Amirsoleimani A, Brion GM, Escobar IC. Thiol-Affinity Immobilization of Casein-Coated Silver Nanoparticles on Polymeric Membranes for Biofouling Control. *Polymers (Basel)*. 2019 Dec 11;11(12) PubMed Central PMCID: [PMC6961038](https://pubmed.ncbi.nlm.nih.gov/35461038/).
4. Dong X, Lu D, Harris TAL, Escobar IC. Polymers and Solvents Used in Membrane Fabrication: A Review Focusing on Sustainable Membrane Development. *Membranes (Basel)*. 2021 Apr 23;11(5) PubMed Central PMCID: [PMC8146349](https://pubmed.ncbi.nlm.nih.gov/35461038/).
5. Wagh P, Zhang X, Blood R, Kekenus-Huskey PM, Rajapaksha P, Wei Y, Escobar IC. Increasing Salt Rejection of Polybenzimidazole Nanofiltration Membranes via the Addition of Immobilized and Aligned Aquaporins. *Processes (Basel)*. 2019 Feb;7(2) PubMed Central PMCID: [PMC6550480](https://pubmed.ncbi.nlm.nih.gov/35461038/).

Synergistic Activities

1. Escobar will co-chair the 2026 International Conference on Membranes (ICOM).
2. Escobar is guest-editing a Topical Collection on polymeric membranes for the open access

journal Membranes.

3. Escobar teaches a workshop on Membranes for Water Treatment Applications at the North American Membrane Society Annual Meeting.
4. Escobar is the Advisor of UKy SHPE and participates in the Noche de Ciencias to broaden participation.
5. Escobar is a panelist for NSF.

Certification:

When the individual signs the certification on behalf of themselves, they are certifying that the information is current, accurate, and complete. This includes, but is not limited to, information related to domestic and foreign appointments and positions. Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Escobar, Isabel in SciENcv on 2024-02-07 12:52:22