




# City of Seattle Boards & Commissions Notice of Appointment

<b>Appointee Name:</b> <i>Christine C. Stawitz</i>		
<b>Board/Commission Name:</b> <i>Seattle Bicycle Advisory Board</i>		<b>Position Title:</b> <i>Member</i>
<input checked="" type="checkbox"/> <b>Appointment</b> OR <input type="checkbox"/> <b>Reappointment</b>		<b>City Council Confirmation required?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Appointing Authority:</b> <input checked="" type="checkbox"/> City Council <input type="checkbox"/> Mayor <input type="checkbox"/> Other: <i>Fill in appointing authority</i>		<b>Term of Position: *</b> 9/1/2022 <b>to</b> 8/31/2024  <input type="checkbox"/> <i>Serving remaining term of a vacant position</i>
<b>Residential Neighborhood:</b> <i>Bryant</i>	<b>Zip Code:</b> <i>98105</i>	<b>Contact Phone No.:</b> [REDACTED]
<b>Background:</b> <i>Christine lives in Bryant and is a fish biologist with the Department of Commerce. As a mom, she is interested in building more protected bike lanes and filling in gaps in the bike network, especially in North Seattle.</i>		
<b>Authorizing Signature (original signature):</b>    <b>Date Signed (appointed):</b>  August 24 <sup>th</sup> , 2022		<b>Appointing Signatory:</b> <i>Alex Pedersen</i> <i>Councilmember</i>

\*Term begin and end date is fixed and tied to the position and not the appointment date.

# CHRISTINE C. STAWITZ

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## RELEVANT WORK AND RESEARCH EXPERIENCE

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Stock Assessment Modeling Program Lead, **NOAA Fisheries** February 2021 – present

- Project management and leadership of Fisheries Integrated Modeling System implementation team
- Coordination of the Fisheries Integrated Toolbox, including web publishing and RStudio Connect platforms

Stock Assessment Modeler, **ECS Federal in support of NOAA Fisheries** October 2018 – January 2021

- Developing new statistical models, including Bayesian population models, state-space mixed-effects models, and nonlinear population models estimated using maximum likelihood estimation.
- Improving usability, documentation, and UI framework for a suite of fisheries population modeling tools

Postdoctoral Research Associate, **University of Washington/NOAA Fisheries** September 2017 – August 2018

- Predicting impacts of climate change on snow crab, *Chionoecetes opilio*, using an agent-based Java model
- Integrating experimental hypothesis testing with simulations of probabilistic climate change outcomes

Graduate Research Assistant, **University of Washington** June 2012 – August 2017

- Developed a hierarchical Bayesian state-space model to estimate somatic growth variation of marine fish
- Estimated climate effects on growth using spatial and spatio-temporal random effects models and DFA

Program Manager, **Microsoft Corporation** August 2008 – August 2011

- Managed design and development lifecycle on the Windows 8 product team including:
  - Designed user interface of Windows features, including copy engine dialog and common controls
  - Coordinated and led team of developers, testers, and designers to develop Windows features
  - Wrote internal specifications and external-facing API documentation for common controls

## EDUCATION

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Ph.D, **University of Washington** September 2011 – August 2017

*Quantitative Ecology and Resource Management*

B.S., **University of Virginia** August 2004 – May 2008

*Systems Engineering, minor in Computer Science, with distinction*

## AWARDS

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Microsoft AI for Good Azure computing grant, \$10K USD equivalent April 2020

NMFS-Sea Grant Population Dynamics Fellow May 2014 – August 2017

## PUBLICATIONS

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Kaplan, I. Gaichas, S., **Stawitz, C.C.**, et al. 2021. Management Strategy Evaluation: Allowing the Light on the Hill to Illuminate More than One Species. *Frontiers in Marine Science* 8, 668.

Gruss, A., Thorson J. **Stawitz, C.C.**, et al. 2021. Synthesis of interannual variability in spatial demographic processes supports the strong influence of cold-pool extent on eastern Bering Sea walleye pollock (*Gadus chalcogrammus*). *Progress in Oceanography* 194, 102569.

O'Leary, C.A., **Stawitz, C.C.**, and Nye, J.A. 2020. Detecting somatic growth trends for summer flounder (*Paralichthys dentatus*) using a state-space approach. *Canadian Journal of Fisheries and Aquatic Sciences* 77 (5), 917-930

**Stawitz, C.C.**, Haltuch, M.A., and Johnson, K.F. 2019. How does growth misspecification impact management advice from an integrated stock assessment model? Fisheries Research. *In press*.

**Stawitz, C.C.** and Essington, T.E. 2019. Somatic growth contributes to population variation in marine fishes. *Journal of Animal Ecology*.

Hayes, A.L., Heery, E.C., Maroon, E., McClaskey, A.K. and **Stawitz, C.C.** 2018. The role of scientific expertise in local adaptation to projected sea level rise. *Environmental Science and Policy*. 87:55-63.

Moriarty, P.E., Hodgson, E.E., Froehlich, H.E., Hennessey, S.M., Marshall, K.N., Oken, K.L., Siple, M.C., Koehn, L.E., Pierce, B.D., **Stawitz, C.C.** 2018. The need for validation of ecological indices. *Ecological Indicators*. 84:546-552.

**Stawitz, C.C.**, Siple, M.C., Lee, Q., Munsch, S.H. 2017. Financial and ecological implications of global seafood mislabeling. *Conservation Letters*. 10(6): 681-689.

Monnahan, C.C., Ono, K., Anderson, S.C., Rudd, M.B., Hicks, A.C., Hurtado-Ferro, F., Johnson, K.F., Kuriyama, P.T., Licandeo, R.R., **Stawitz, C.C.**, Taylor, I.G., Valero, J.L. 2016. The effect of length bin structures on growth estimation in integrated age-structured stock assessments. *Fisheries Research*. 180: 103-112.

Kuriyama, P.T., Ono, K., Hurtado-Ferro, F., Hicks, A.C., Taylor, I.G., Licandeo, R.R., Johnson, K.F., Anderson, S.C., Monnahan, C.C., Rudd, M.B., **Stawitz, C.C.**, Valero, J.L. 2016. An empirical weight-at-age approach reduces estimation bias compared to modeling parametric growth in integrated, statistical stock assessment models when growth is time varying. *Fisheries Research*. 180: 119-127.

**Stawitz, C.C.**, Essington, T.E., Branch, T.A., Haltuch, M.A., Hollowed, A.B., Spencer, P.D. 2015. A state-space approach for measuring growth variation and application to North Pacific groundfish. *Canadian Journal of Fisheries and Aquatic Sciences*. 72(9): 1316-1328.

Essington, T.E., Moriarty, P.E., Froehlich, H.E., Hodgson, E.E., Koehn, L.E., Oken, K.L., Siple, M.C., **Stawitz, C.C.** 2015. Fishing amplifies forage fish population collapses. *PNAS*. 112 (21): 6648-6652.

## INVITED PRESENTATIONS

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**Stawitz, C.C.** Shared software development strategies facilitate implementation of EBFM. September 24, 2020. Northwest Fisheries Science Center, Seattle, WA.

**Stawitz, C.C.** Shared patterns of growth across Northeast Pacific groundfish? It's complicated. International Working Group on Fisheries Response to Climate Change. November 21, 2018. Aberdeen, UK

**Stawitz, C.C.**, Stockhausen, W.T., Szuwalski, C.S., Foy, R.J, Punt, A.E. "Forecasting the effects of climate change on Alaskan snow crab (*Chionoecetes opilio*)." 4<sup>th</sup> Effects of Climate Change on the World's Ocean's Symposium, Washington, D.C. USA. June 2<sup>nd</sup> 2018.

**Stawitz, C.C.**, Haltuch, M.A. "How does growth variability affect estimation of management quantities in fisheries stock assessments, and can growth changes be detected?" ICES/PICES Early Career Scientist Meeting, Busan, ROK. May 31<sup>st</sup>, 2017.

## TECHNICAL SKILLS

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**Languages & software:** R, Java, SQL, Git/Github, JAGS, TMB, HTML, Visual Basic, C++, JavaScript

**Software development:** Co-author of the roomba, ss3sim, and r4ss R packages

**Statistics:** *Teaching:* applied statistics, including linear, nonlinear, and hierarchical mixed-effects models and R implementations; *Expertise:* probability and statistical theory, Bayesian state-space modeling, multivariate statistics including dynamic factor analysis

## TEACHING AND TUTORING EXPERIENCE

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**Invited participant, R unconference 2018, Microsoft Reactor, Seattle** **May 2018**

- Developed roomba R package to tidy deeply-nested lists; created Shiny app and documentation

**Lecturer, GitHub Tutorial, University of Washington** **June 2016, January 2017**

- Prepared and led interactive tutorial on GitHub use to students and postdoctoral researchers

**Guest Lecturer, Super-Advanced R, University of Washington** **Spring 2014**

- Prepared and led “Underpinnings of R” lecture and lab, covering core computer science topics such as scoping, typing, rounding error, and regular expressions in the R programming language.

**Guest Lecturer, Analysis of Ecological Data, University of Washington** **April 2016, Spring 2013**

- Lectures on statistics including: mixed effect models, analysis of covariance, nonlinear regression, R labs on analysis of variance and covariance, generalized linear models, nonlinear mixed-effects models, generalized additive models and time series analysis.

# Seattle Bicycle Advisory Board

12 Members: Pursuant to Resolution 30995; all members subject to City Council confirmation, 2-year terms:

- 7 Mayor- appointed
- 5 City Council- appointed

## Roster:

*D	**G	RD	Position No.	Position Title	Name	Term Begin Date	Term End Date	Term #	Appointed By
8	M	3	1.	Member	Yasir Alfarag	9/1/2021	8/31/2023	2	Mayor
6	M	2	2.	Member	Max J. Green	9/1/2022	8/31/2024	1	City Council
3	M	4	3.	Member	Jose Nino	9/1/2021	8/31/2023	1	Mayor
1	F	4	4.	Member	Andrea Lai	9/1/2021	8/31/2023	2	City Council
9	O	4	5.	Member	Ty Bottorff	9/1/2021	8/31/2023	1	Mayor
			6.	Member	Douglas Midgen	9/1/2021	8/31/2023	1	City Council
6	F	7	7.	Member	Donna McBain Evans	9/1/2022	8/31/2024	1	Mayor
6	F	4	8.	Member	Christine C. Stawitz	9/1/2022	8/31/2024	1	City Council
6	M	2	9.	Member	Quinn Thomas Kelly	9/1/2022	8/31/2024	1	Mayor
6	M	3	10.	Member	Peter Bryan	9/1/2022	8/31/2024	1	City Council
2	M	3	11.	Member	Joseph Roberts	9/1/2022	8/31/2024	1	Mayor
6/8	M	7	12.	Get Engaged Member	Yaacov Tarko	9/1/2021	8/31/2022	1	Mayor

## SELF-IDENTIFIED DIVERSITY CHART

					(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Male	Female	Transgender	NB/ O/ U	Asian	Black/ African American	Hispanic/ Latino	American Indian/ Alaska Native	Other	Caucasian/ Non-Hispanic	Pacific Islander	Middle Eastern	Multiracial
Mayor	5	1	1			1	1			3		2	1
Council	2	2			1					3			
Other													
<b>Total</b>	<b>7</b>	<b>3</b>	<b>1</b>		<b>1</b>	<b>1</b>	<b>1</b>			<b>6</b>		<b>2</b>	<b>1</b>

### Key:

- \*D List the corresponding *Diversity Chart* number (1 through 9)
- \*\*G List *gender*, M= Male, F= Female, T= Transgender, NB= Non-Binary, O= Other, U= Unknown
- RD Residential Council District number 1 through 7 or N/A

*Diversity information is self-identified and is voluntary.*