

Sarah Power

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Education

PhD in Fisheries, University of Alaska Fairbanks, current student.

Master of Science in Statistics, Wright State University, Ohio, 2007

Bachelor of Arts in Mathematics, *Cum Laude*, Wright State University, Ohio 2001

Bachelor of Science in Mathematics Education, *Cum Laude*, Wright State University, Ohio 2001

Employment History

Biometrician, Alaska Dept. of Fish and Game, Juneau, AK 2008- present

Graduate Teaching Assistant, Wright State University, Dayton, OH 2006-2007

Mathematics teacher, Professional Performing Arts School, New York, NY 2004-2005

Mathematics teacher, Fairmont High School, Kettering, OH 2001-2004

Research Assistant, Mathematics Dept. Wright State University, Dayton, OH 1999-2000

Skills

R, Git, SAS, winBUGS, openBUGS, PopAN, AD Model Builder, SPAM and BAYES, Excel. Proficient learning new technologies.

Professional Affiliations

American Statistical Association (ASA) - Member since 2007 COC Alaska Representative – 2012 - 2016

Alaska Chapter of the ASA - Member since 2007 President 2011 & 2017 Vice President 2010 & 2016

American Fisheries Society (AFS) - Member since 2014

Golden Key International Honor Society - Member since 1999

Professional Development

Short courses

SAS Programming for R, by Jordan Bakerman and SAS online July 2016

Herring Modeling Workshop, Steve Martell, Juneau July 28-29 2016

Salmon Forecasting Workshop, Salmon Ocean Ecology Meeting Juneau, March 29, 2016

Intro to ArcGIS in Fisheries Applications, Alaska American Fisheries Society, Juneau Oct. 20-21, 2016

Applied Generalized Linear Mixed Models, by Dr. Ben Bolker and AK ASA, Chena Hot Springs, Aug. 2014

Statistical methods for estimating abundance for natural resources by Jay Ver Hoef, Steve Buckland, Gary White and Don Stevens and TIES, Anchorage, AK, June 2013

Probability Sampling for Spatial Domains by Dr. Don Stevens, Jr. and AK ASA, Anchorage, AK Aug. 2012

Spatial Statistics by Dr. Margaret Short and AK ASA, Juneau, AK, Aug. 2011

Analysis of Time Series by Dr. Richard Davis and AK ASA, Kodiak, AK, October 2010

Bayesian Modeling, Inference and Prediction by David Draper and AK ASA, Anchorage, AK, June 2009

Graduate level courses taken at the University of Alaska Fairbanks post masters.

Pacific Salmon Life Histories B+, Fall 2013

Statistical Computing with R A, Fall 2012

Management of Renewable Marine Resources A, Spring 2012

Sampling Theory A-, Fall 2011

Fishery Genetics A, Fall 2011

Bayesian Statistics A-, Fall 2010

Spatial Statistics A, Spring 2010

Quantitative Fish Population Dynamics II A, Spring 2009

Estimation of fish Abundance A, Fall 2008

Presentations and Reports (coauthored and biometric contributions)

2017

Presented, "The long and the short of it: Chinook Bycatch genetic analysis by length." 2017 Power, S.J.H., C. Guthrie, and J. Guyon. 2017 Student American Fisheries Society Symposium. March 3 2017.

M. Jaenicke, D. Tersteeg, and S. J. H. Power. 2017. Operational Plan Amendment: Southeast Alaska marine boat sport fishery harvest studies, 2015-2017. Alaska Department of Fish and Game, Regional Operational Plan SF.1J.2017.02, Anchorage.

2016

Chadwick, B. 2016. Juneau, Sitka, and Prince of Wales Island coho salmon index escapement surveys: 2016–2018. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan No. ROP.SF.1J.2016.15, Anchorage

Elliott, B. W., and S. J. H. Power. 2016. Chilkat River Chinook salmon escapement studies in 2016. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan SF.1J.2016.06, Juneau.

Elliott, B. W., and S. J. H. Power. 2016. Production and harvest of Chilkat River Chinook and coho salmon, 2016-2017. Alaska Department of Fish and Game, Regional Operational Plan No SF.1J.2016.16, Anchorage.

Jaecks, T., S. J. H. Power, P. Richards, and I. Boyce. 2016. Spawning escapement of Chinook salmon in the Stikine River, 2016-2018. Alaska Department of Fish and Game, Regional Operational Plan.SF.1J.2016.08, Anchorage.

Jaecks, T., S. J. H. Power, P. Richards, and I. Boyce. 2016. Estimation of smolt production and harvest of Stikine River Chinook Salmon, 2016–2018. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan No. ROP.SF.1J.2016.09, Anchorage.

Jaacks, T., P. Richards, S. J. H. Power, and P. Etherton. 2015. Spawning escapement of Chinook salmon in the Stikine River, 2015. Alaska Department of Fish and Game, Regional Operational Plan.SF1J.2015.07, Anchorage.

Marston, B. H., and S. J. H. Power. 2016. Situk River steelhead stock assessment, 2016-2017. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan No. SF.1J.2016.03, Anchorage.

Marston B. H., and S. J. H. Power. 2016. Steelhead Studies from the Situk River in Southeast Alaska, 2009-2011. Alaska Department of Fish and Game, Division of Sport Fish, Fishery Data Series No. 16-21, Anchorage.

Richards, P., T. Jaacks, S. J. H. Power, and I. Boyce. 2016. Migration, landslide passage, tagging response, and distribution of Chinook salmon returning to the Stikine River, 2016. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan ROP.SF.1J.2016.05, Anchorage.

Richards, P., J. Williams, S. J. H. Power, I. Boyce, and B. Waugh. 2016. Migration, tagging response, and distribution of Chinook salmon returning to the Taku River, 2016. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan ROP.SF.1J.2016.04, Anchorage.

Richards, P. 2016. Escapements of Chinook salmon in Southeast Alaska and Transboundary Rivers in 2016. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan No. SF.1J.2016.13, Anchorage.

Williams, J. T., S. J. H. Power, and E. L. Jones III. 2016. Production and escapement of Chinook salmon in the Taku River, 2016–2018. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan No. ROP.SF.1J.2016.11, Anchorage.

Williams, J. T., S. J. H. Power, and E. L. Jones III. 2016. Production and escapement of coho salmon in the Taku River, 2016–2018. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan No. ROP.SF.1J.2016.10, Anchorage.

2015

Chapell, R. S., and S. J. H. Power. 2015. Haines marine boat sport fishery creel survey and Skagway marine boat sport fishery harvest sampling, 2015. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan No. SF.1J.2015.10, Anchorage.

Elliott, B. W. and S. J. H. Power. 2015. Production and harvest of Chilkat River Chinook and coho salmon, 2015–2016. Alaska Department of Fish and Game, Regional Operational Plan No SF.1J.2015.17, Anchorage.

Elliott, B. W., and S. J. H. Power. 2015. Chilkat River Chinook salmon escapement studies in 2015. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan SF.1J.2015.13, Anchorage.

Jaenicke M., D. Tersteeg, and S. J. H. Power. 2014. Southeast Alaska marine boat sport fishery harvest studies, 2015-2016. Alaska Department of Fish and Game, Regional Operational Plan SF.1J.2015.06, Anchorage.

Jaacks, T., P. Richards, S. J. H. Power, and P. Etherton. 2015. Spawning escapement of Chinook salmon in the Stikine River, 2015. Alaska Department of Fish and Game, Regional Operational Plan.SF1J.2015.07, Anchorage.

Jaacks, T., P. Richards, S. J. H. Power, P. Etherton, and I. Boyce. 2015. Estimation of smolt production and harvest of Stikine River Chinook Salmon, 2015. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan No. SF.1J.2015.04, Anchorage.

Marston, B. H. 2015. Situk River Chinook salmon creel survey, 2015. Alaska Department of Fish and Game, Regional Operational Plan No. SF.1J.2015.09, Anchorage

Richards, P., J. Williams, S. J. H. Power, I. Boyce, and B. Waugh. 2015. Migration, tagging response, and distribution of Chinook salmon returning to the Taku River, 2015. Alaska Department of Fish and Game, Division, Regional Operational Plan ROP.SF.1J.2015.11, Anchorage.

Richards, P., T. Johnson, and M. Sanguinetti. 2015. Escapements of Chinook salmon in Southeast Alaska and Transboundary Rivers in 2015. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan SF.1J.2015.14, Anchorage

Richards, P., T. Jaacks, S. J. H. Power, I. Boyce, and P. Etherton. 2015. Migration, landslide passage, tagging response, and distribution of Chinook salmon returning to the Stikine River, 2015. Alaska Department of Fish and Game, Division, Regional Operational Plan ROP.SF.IJ.2015.05, Anchorage.

Richards, P., T. Jaacks, S. J. H. Power, I. Boyce, and P. Etherton. 2015. Migration, landslide passage, tagging response, and distribution of Chinook salmon returning to the Stikine River, 2015. Alaska Department of Fish and Game, Division, Regional Operational Plan ROP.SF.1J.2015.12, Anchorage.

Schroeder, K., and S. J. H. Power. 2015. Coho salmon coded wire tagging and escapement at Cowee Creek, 2015-2017. Alaska Department of Fish and Game, Regional Operational Plan No. SF.1J.2015.01, Anchorage.

Williams, J. T., S. J. H. Power, and E. L. Jones III. 2015. Estimation of Chinook salmon escapement in the Taku River, 2015. Alaska Department of Fish and Game, Regional Operational Plan No. SF.1J.2015.03, Anchorage.

Williams, J. T., S. J. H. Power, and E. L. Jones III. 2015. Production of coho and Chinook salmon in the Taku River, 2015. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan No. SF.1J.2015.02, Anchorage

2014

Presented, “Regional Chinook Bycatch Proportions by Geographic Area”, at the AK Chapter of the AFS meeting, Juneau, AK, October 2014

Presented, “Precision Nomenclature” at AK Chapter of the ASA meeting, Chena, AK, Aug 2014

Presented, “Salmon Bycatch in the Pollock Fishery of the Bering Sea”, poster at the Coastwide Salmonid Genetics meeting Juneau, AK, June 2014

Presented, “Patterns of mixed stock analysis of Chinook in the Bering Sea”, at AFS Student Symposium, Juneau, AK, April 2014

Chapell, R. 2014. Haines Marine Boat Sport Fishery Creel Survey and Skagway Marine Boat Sport Fishery Harvest Sampling, 2014. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan No. SF.1J.2014.10, Anchorage.

Elliott, B. W., R. S. Chapell, and S. J. Power. 2014. Chilkat River Chinook salmon escapement studies in 2014. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan SF.1J.2014.01, Anchorage.

Elliott, B. W., R. S. Chapell, and S. J. H. Power. 2014. Production and harvest of Chilkat River Chinook and coho salmon, 2014–2015. Alaska Department of Fish and Game, Regional Operational Plan No. ROP.SF.1J.2014.14, Anchorage.

Jaenicke, M., D. Tersteeg, and S. Power. 2014. Southeast Alaska marine boat sport fishery harvest studies, 2014. Alaska Department of Fish and Game, Regional Operational Plan No. .SF.1J.2014.16, Anchorage.

Marston, B. 2014. Situk River Chinook salmon creel survey, 2014. Alaska Department of Fish and Game, Regional Information Report No. ROP.SF.1J.2014.13, Anchorage.

Marston, B. H. 2014. Situk River steelhead stock assessment, 2014–2015. Alaska Department of Fish and Game, Regional Operational Plan No. SF.1J.2014.09, Anchorage.

Oslund, S. 2014. Beaver dam and related pond inventory on anadromous streams within the Susitna River drainage, 2014. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan ROP.SF.2A.2014.14, Palmer

Richards, P., T. Johnson, and S. Power. 2014. Escapements of Chinook salmon in Southeast Alaska and Transboundary Rivers in 2014. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan SF.1J.2014-11, Anchorage.

Schroeder, K., J. Nichols, and S. Power. 2014. Coho salmon coded wire tagging and escapement at Cowee Creek, 2014. Alaska Department of Fish and Game, Regional Operational Plan ROP.SF.1J.2014.06, Anchorage.

2013

Presented *Adult Equivalence Model* at the Resource Modeling Association 2013 Meeting, Ithaca, New York, June 2013,

Presented on Genetic Patterns of Chinook in the BSAI at the International Environmetrics Society (TIES) 23rd annual meeting, Anchorage, AK, June 2013 ****Honorable mention for presentation.****

Bingham, A.E., M. Jaenicke, K. Wendt, D. Tersteeg, and S. Power. 2013. 2013 Southeast Alaska marine boat sport fishery harvest studies. Alaska Department of Fish and Game, Regional Operational Plan SF.1J.2013.11, Anchorage.

Chapell, R. S., and B. W. Elliott. 2013. Chilkat River Chinook salmon escapement studies in 2013. Alaska Department of Fish and Game, Regional Operational Plan No. SF.1J.2013.07, Anchorage.

Chapell, R. S., and B. W. Elliott. 2013. Haines marine boat sport fishery creel survey and Skagway marine boat sport fishery harvest sampling, 2013. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan No. SF.1J.2013.13, Anchorage.

Chapell, R. S and B. W. Elliott. 2013. Production and harvest of Chilkat River Chinook and coho salmon, 2013–2014. Alaska Department of Fish and Game, Regional Operational Plan No. SF.1J.2013.16, Anchorage.

Chapell, R. S. 2013. Production, escapement, and juvenile tagging of Chilkat River Chinook salmon in 2009. Alaska Department of Fish and Game, Fishery Data Series No. 13-12, Anchorage.

Chapell, R. S. 2013. Production, escapement, and juvenile tagging of Chilkat River Chinook salmon in 2010. Alaska Department of Fish and Game, Fishery Data Series No. 13-25, Anchorage.

Elliott, B. W. 2013. Production, harvest, and escapement of Chilkat River Coho salmon, 2009–2010. Alaska Department of Fish and Game, Fishery Data Series No. 13-14, Anchorage

Richards, P., and T. Johnson. 2013. Escapements of Chinook salmon in Southeast Alaska and transboundary rivers in 2013. Alaska Department of Fish and Game, Division of Sport Fish, Regional Operational Plan ROP.1J.2013.15, Anchorage.

Schroeder, K., J. Nichols, and S. Power. 2013. Assessment of coho salmon in Cowee Creek using coded wire tagging. Alaska Department of Fish and Game, Regional Operational Plan No. 1J.2013.06, Anchorage.

2012

Chapell, R. S. 2012. Production, escapement, and juvenile tagging of Chilkat River Chinook salmon in 2008. Alaska Department of Fish and Game, Fishery Data Series No. 12-68, Anchorage.

Elliott, B. W. 2012. Production and escapement of Chilkat River coho salmon, 2007–2008. Alaska Department of Fish and Game, Fishery Data Series No. 12-43, Anchorage.

Elliott, B. W. 2012. Production and escapement of Chilkat River coho salmon, 2008–2009. Alaska Department of Fish and Game, Fishery Data Series No. 12-51, Anchorage.

Marston, B. H., R. E. Johnson, and S. Power. 2012. Steelhead studies from the Situk River in Southeast Alaska, 2002-2008. Alaska Department of Fish and Game, Fishery Data Series No. 12-40, Anchorage.

McCurdy, S. J. 2012. Production of coho salmon from the 2009 smolt emigration from Chuck Creek in Southeast Alaska. Alaska Department of Fish and Game, Fishery Data Series No. 12-56, Anchorage.

2011

Tydingco, T. A. and P. A. Fowler. 2011. Smolt production, adult harvest, and spawning escapement of coho salmon from Nakwasina River in Southeast Alaska, 2008–2009. Alaska Department of Fish and Game, Fishery Data Series No. 11-50 Anchorage.

Wendt, K. L., and M. J. Jaenicke. 2011. Harvest estimates for selected marine sport fisheries in Southeast Alaska during 2003. Alaska Department of Fish and Game, Fishery Data Series No. 11-61, Anchorage.

Wendt, K. L., and M. J. Jaenicke. 2011. Harvest and catch statistics for selected marine sport fisheries in Southeast Alaska during 2004. Alaska Department of Fish and Game, Fishery Data Series No. 11-62, Anchorage.

2010

Tydingco, T. A. Smolt production, adult harvest, and spawning escapement of coho salmon from Nakwasina River in Southeast Alaska, 2004–2006. Alaska Department of Fish and Game, Fishery Data Series No. 10-21, Anchorage.

McCurdy, S. J. 2010. Production of coho salmon from the 2007 smolt emigration from Chuck Creek in Southeast Alaska. Alaska Department of Fish and Game, Fishery Data Series No. 10-31, Anchorage.

Tydingco, T. A., and P. A. Fowler. 2010. Smolt production, adult harvest, and spawning escapement of coho salmon from Nakwasina River in Southeast Alaska, 2006-2008. Alaska Department of Fish and Game, Fishery Data Series No. 10-44, Anchorage.

Elliott, B. W. 2010. Production and escapement of coho salmon from the Chilkat River, 2006–2007. Alaska Department of Fish and Game, Fishery Data Series No. 10-60, Anchorage.

McCurdy, S. J. 2010. Production of coho salmon from the 2008 smolt emigration from Chuck Creek in Southeast Alaska. Alaska Department of Fish and Game, Fishery Data Series No. 10-75, Anchorage

Chapell, R. S. 2010. Production, escapement, and juvenile tagging of Chilkat River Chinook salmon in 2007. Alaska Department of Fish and Game, Fishery Data Series No. 10-86, Anchorage.

2009

Pahlke, K. A. 2009. Escapements of Chinook salmon in Southeast Alaska and transboundary rivers in 2007. Alaska Department of Fish and Game, Fishery Data Series No. 09-08, Anchorage.