

# Jason R Gasper

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## EDUCATION

**Ph.D. University of Alaska Fairbanks (2011), School of Fisheries and Ocean Sciences**

Major: Fisheries

*Dissertation:* Policy and Market Analysis of World Dogfish Fisheries and an Evaluation of the Feasibility of a Dogfish Fishery in Waters off Alaska, USA.

**M.M.A. University of Washington, School of Marine Affairs (2004)**

Major: Marine Policy

*Thesis:* The sport fishery in the Icy Strait/Glacier Bay/Cross Sound region of southeastern Alaska: an analysis of charter guide-client power interactions and sport fishing catch, harvest, and effort

**B.S. University of Alaska Southeast (2002)**

Major: Biology (marine emphasis)

## Certificates

Leadership and Management - Negotiation, leadership principles, and strategic implementation  
*Harvard Business School 2021*

Data Science – Python based certification on data analytics and machine learning  
*University of Washington 2020*

## Other Training

FSH 559 Numerical Computing for Natural Resources 2018. University of Washington. Dr. Andre Punt  
Bayesian Disease Mapping and INLA: Spatial Modeling Week-Long Course 2017. Medical University of South Carolina. Dr. Andrew Larson

Stock Synthesis Workshop. 2014. Juneau, Alaska. Dr. Ian Taylor

Communicating with the Media. Benschmidt Communications Group. Juneau, Alaska 2010

Mark-Recapture/Fish Abundance Workshop. 2005. Alaska Department of Fish and Game. Juneau, Alaska

## WORK EXPERIENCE

2017- Present Senior Analyst: National Marine Fisheries Service: Juneau, Alaska

1/2022 -5/2022 Acting Catch Accounting Branch Chief: National Marine Fisheries Service: Juneau, Alaska

2006-2017 Resource Management Specialist: National Marine Fisheries Service: Juneau, Alaska

2005-2006 Regulatory Specialist: National Marine Fisheries Service: Juneau, Alaska

2004-2005 Assistant Area Management Biologist: Alaska Department of Fish and Game, Sportfish Division: Juneau, Alaska (supervisor)

2002-2004 Supervisory Research Assistant: University of Washington: Seattle, Washington, and Gustavus, Alaska

1999-2001 Seasonal Fishery Technician: Alaska Department of Fish and Game, Commercial Fisheries Division: Juneau, Alaska and Excursion Inlet.

1998-2000 Materials Testing and Water Quality Analyst: Analytica Alaska (winter season only 1999-2000): Juneau, Alaska.

1993-1998 Various positions: Construction, van driver/sport fish guide, law practice intern, service representative for an aquarium store, University of Alaska School of Fisheries and Ocean Sciences laboratory technician, child labor at family's vineyard.

### **PROFESSIONAL SERVICES**

2022-Present NPFMC Climate Change Task Force  
2016-present Halibut Discard Mortality Workgroup  
2018-present US Delegate for US/Russia Consultative Committee and Central Bering Sea Convention  
2018-2021 Data Poor Working Group and NS1 Rollover Working Group  
2016-present Science and Statistical Committee of the North Pacific Fishery Management Council  
2013-2015 Bering Sea Crab Plan Team of the North Pacific Fishery Management Council  
2012-Present Observer Science Committee  
2014 Session chair American Fisheries Society Symposium, Alaska Chapter. Fishery Management session.  
2012-2014 Member of NOAA's National Recreational Fishing Initiative working group  
2012-2013 Member of National Standard 1 Guideline Revision workgroup  
2010 Member of National Bycatch Report Working Group  
2010 Total Catch Accounting workgroup  
2008-2020 Board Member, Juneau Chapter of Trout Unlimited

### **TEACHING**

2012, 14, 16 University of Alaska Fairbanks. Lectures for FSH640: Fishery Management in Alaska  
2013, 2015 R-Cran Workshop: Led full day workshops. Alaska Regional Office, Juneau  
2013 Guest lecture for BIOL 315: Current Topics in Biology. University of Alaska Southeast  
2011 Guest lecture for BIOL 415: Physiology of Marine Organisms. University of Alaska Southeast  
2009 Assistant for ADMB workshop provided by Dr. Jim Ianelli. Alaska Regional Office, Juneau, Alaska

### **GRADUATE STUDENT MENTORSHIP**

Cory Leschure Alaska Pacific University. Assessing variability in trawl catch estimate of crab in the Bering Sea. Master's Student. Graduated 2021  
Jennifer Roberts American Public University. Assessing seabird bycatch in fisheries off Alaska. Masters Student. Graduated 2018

### **SKILLS**

- Statistical survey and sampling design and evaluation
- Data analysis and predictive modeling including multivariate statistical modeling, Bayesian analysis, machine learning, and neural networks
- Versatile across multiple platforms and languages: SQL/Oracle, GIS Applications (ESRI, R), WinBugs, Git/GitLab/Github, R, Python, R/Python integration in Google Colab and Jupyter Notebook
- Experience in fish stock assessments, including scientific reviews, coursework and training, workshops, and contributing analyses
- Visualization of large data sets and model results using R, Python, and Tableau
- Deep understanding of federal regulatory process, associated analyses, and governing regulations for fisheries and rulemaking
- Organizational process related to strategic design, business planning, and developing high functioning teams
- Strong writing and presentation skills

### **PUBLICATIONS**

Holland, D., D. Lambert, E. Schnettler, R. Methot, M. Karp, K. Brewster-Geisz, J. Brodziak, S. Crosson, N. Farmer, K. Frens, **J. Gasper**, J. Hastie, P. Lynch, S. Matson, and E. Thunberg. 2020. National Standard 1 Technical Guidance for Designing, Evaluating, and Implementing Carry-over and Phase-in Provisions. NOAA Tech. Memo. NMFS-F/SPO-203, 41 p.

- Gasper, J.R.**, C. Tide, G. Harrington, J. Cahalan, Bibb S., G. Merrill. 2018. Supplement to the Environmental Assessment for Restructuring the Program for Observer Procurement and Deployment in the North Pacific. NOAA Tech Memo. NMFS-F/AKR-19.
- King, J.R., G.A. McFarlane, V. Gertseva, **J. Gasper**, S. Matson, C.A. Tribuzio. 2018. Shark interactions with directed and incidental fisheries in the Northeast Pacific Ocean: historic and current encounters, and challenges for shark conservation. In: Larson, S. and D. Lowry eds. Northeast Pacific Shark biology, research and conservation. *Advances in Marine Biology* 77.
- Ganz, P., S. Barbeaux, J. Cahalan, **J. Gasper**, S. Lowe, R. Webster, C. Faunce. 2018. Deployment Performance Review of the 2017 North Pacific Observer Program. NOAA Tech. NMFS-AFSC-379.
- Cahalan, J., **J. Gasper**, and J. Mondragon. 2015. Evaluation of Design-Based Estimators in the Federal Groundfish Fisheries off Alaska. In: G.H. Kruse, H.C. An, J. DiCosimo, C.A. Eischens, G.S. Gislason, D.N. McBride, C.S. Rose, and C.E. Siddon (eds.), *Fisheries Bycatch: Global Issues and Creative Solutions*. Alaska Sea Grant, University of Alaska Fairbanks. <http://doi.org/10.4027/fbgics.2015.09>.
- Faunce, C., **J. Gasper**, J. Cahalan, S. Lowe, R. Webster, and T. A'mar. 2015. Deployment performance review of the 2014 North Pacific Groundfish and Halibut Observer Program. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-302, 55 p. doi:10.7289/V55M63NW.
- Cahalan, J., **Gasper J.R.**, and J. Mondragon. 2014. Catch estimation in the Federal trawl fisheries off Alaska: A simulation approach to compare the statistical properties of the simple mean estimator, a deterministic imputation method, and the ratio estimator. *Canadian Journal of Fisheries and Aquatic Sciences* 72:1024-1036.
- Faunce C., Cahalan J., **Gasper J.R.**, A'mar T., Lowe S., Wallace F., and Webster R. 2014. Deployment performance review of the 2013 North Pacific Groundfish and Halibut Observer Program. *NOAA Tech. Memo.* NMFS-AFSC-281: 76 pp.
- Cahalan, J., **J. R. Gasper**, and J. Mondragon. 2014. Catch sampling and estimation in the Federal groundfish fisheries off Alaska: 2014 Edition. *NOAA Tech. Memo.* NMFS-AFSC-286. 46 pp.
- Tribuzio C.A., **Gasper J.R.**, and Gaichas S. 2014. Estimation of bycatch in the unobserved Pacific halibut fishery off Alaska. *NOAA Tech-Memo.* NMFS-AFSC-265.
- Gasper, J.R.** and G.H. Kruse. 2013. Spatial modeling of the distribution of spiny dogfish (*Squalus acanthias*) in the Gulf of Alaska using generalized additive and generalized linear modeling techniques. *Canadian Journal of Fisheries and Aquatic Sciences* 70(9): 1372:1385.
- Faunce C. H., Wallace F., Cahalan J., **Gasper J.**, and M. Loefflad. 2013. Development of a statistically sound design for the deployment of fishery observers in Alaska. ICES Annual Science Conference. Reykjavik, Iceland.
- Gasper J.R.**, J. Watson, and J. Mondragon. 2011. Investigating weight loss in Pacific cod (*Gadus macrocephalus*) due to exsanguination. *NOAA Tech. Memo.* NMFS-AKRO-10.
- Cahalan, J., J. Mondragon, **J. R. Gasper**. 2010. Catch sampling and estimation in the Federal groundfish fisheries off Alaska. *NOAA Tech. Memo.* NMFS-AFSC-205. 51 pp.
- Gasper, J.R.**, Miller, M.L., Gallucci, V.F., Soiseth, C., 2007, The diffusion of fishery information in a charter boat fishery- Guide-client interactions in Gustavus, Alaska, in Piatt, J.F., and S.M. Gende, eds., *Proceedings of the Fourth Glacier Bay Science Symposium*, October 26–28, 2004: U.S. Geological Survey Scientific Investigations Report 2007-5047, p. 183-187.
- Gasper, J.R.**, V.F. Gallucci, M. Miller, J. Swanson, C. Soiseth, and D. Johnson. 2004. Sportfishing catch and harvest of Pacific halibut (*Hippoglossus stenolepis*) in Glacier Bay National Park, in Kruse, G.H., V.F. Gallucci, D.E. Hay, R.I. Perry, R.M. Peterman, T.C. Shirley, S.P. Spencer, B. Wilson, and D. Woodby. *Fisheries assessment and management in data-limited situations*. Alaska Sea Grant College Program, University of Alaska Fairbanks. AK-SG-05-02.

#### **MAGAZINE AND BLOG ARTICLES**

- Alaska Fly Fishing Goods Newsletter*. July 2014. Eight tips for a great Alaska fishing trip.
- Northwest Fly Fishing Magazine*. February 2014. Floating and fishing the Wulik River, Alaska.

*Fish Alaska Magazine*. May 2013. A journey to middle earth: fishing and floating the Kisaralik River, Alaska.  
*Le Mouching*. 2013. Cindy and Jason go for jaws: Fly fishing for mako sharks off San Diego.  
*Le Mouching* 2012. My Argentine Mistress: Flyfishing for giant rainbows at Lago Strobel, Argentina.

### **SYMPOSIA AND PRESENTATIONS**

- Gasper, J.**, and J. Cahalan. 2023. Using machine learning approaches to evaluate high-dimensional data and optimize post-stratification used in the estimation of fisheries catch. American Statistical Association Meeting on Statistical Practice. San Francisco, CA.
- Gasper, J.** and J. Mondragon. May 2016. Cost and benefits of electronic monitoring programs. World Fisheries Congress, Buson, South Korea.
- AKR Staff. 2015. Supplemental Environmental Analysis for restructuring the program for observer procurement and deployment in the North Pacific. North Pacific Fishery Management Council Scientific and Statistical Committee and Advisory Panel.
- Tribuzio, C.A., **J. Gasper**, J. Cahalan and M. Furuness. 2015. Does size really matter? The potential for managing large species by counts in Alaska. National Stock Assessment Workshop, Portland, Oregon.
- Tribuzio, C.A., **J. Gasper**, J. Cahalan and M. Furuness. 2015. Does size really matter? The potential for managing large species by counts in Alaska. Lowell Wakefield Symposium, Anchorage, Alaska. (oral)
- Cahalan J., and **J. Gasper**. 2015. Variability in mean weight per fish: How much does it matter? Alaska Marine Science Symposium. Anchorage, Alaska.
- Gasper J.**, J. Cahalan. 2015. Catch sampling and estimation in federal groundfish fisheries. Alaska Marine Science Symposium. Anchorage, Alaska.
- Faunce C., and **Gasper J.** 2014. Annual Progress Report for the North Pacific Observer Program. Co-presentation to the North Pacific Fishery Management Council Scientific and Statistical Committee.
- Gasper J.**, Tribuzio C., and M. Furuness. 2014. Shifting a management paradigm: managing by numbers instead of weight for large species. 18<sup>th</sup> Western Groundfish Conference. Victoria, Canada.
- Fitzgerald S.M., Cahalan J., **Gasper J.**, and Mondragon J. 2014 Preliminary estimates of seabird bycatch in the Alaskan halibut longline fishery in 2013. Pacific Seabird Group 41<sup>st</sup> Annual Meeting.
- Gasper J.** 2013. Overview of accounting methodology in Alaska. Presentation for Korean science delegation. Busan, Korea.
- Fitzgerald S., Cahalan J., **Gasper J.**, Mondragon J. 2013. Preliminary estimates of seabird bycatch in the Alaskan halibut longline fishery in 2013 [Black-footed *Phoebastria nigripes* and Laysan *P. immutabilis* Albatrosses].
- Cahalan, J., J.R. **Gasper, J.** Mondragon. 2012. When is a ratio estimator not a ratio estimator? Evaluation of catch estimates for Alaska groundfish fisheries. American Statistical Society Conference on Statistical Practice. Orlando, Florida.
- Gasper, J.R.**, G.H. Kruse, J. Greenberg. 2010. The spatial distribution of spiny dogfish (*Squalus acanthias*) in the Gulf of Alaska: the use of fishery dependent data, fishery independent data, and generalized modeling for the spatial management of catch and bycatch. International Council for the Exploration of the Seas Annual Meeting. Nantes, France.
- Tribuzio, C.A., G.H. Kruse. 2010. The complexities of managing a complex: the case of assessing data limited sharks in the Gulf of Alaska. International Council for the Exploration of the Seas Annual Meeting. Nantes, France. (Presentation given for Dr. Tribuzio).
- Gasper, J.R.**, J. Cahalan, J. Mondragon. 2010. One size doesn't fit all: Spatial analysis of catch estimation in the North Pacific. International Council for the Exploration of the Sea symposium on fishery dependent information. Galway, Ireland.

### **AWARDS AND SCHOLARSHIPS**

2022 NOAA Administrators Award: National Guidance for Data Poor Stocks  
2020 NOAA Bronze Medal Team Award: Electronic Monitoring Program

2016 Diamond Alumni Award- Portland Community College  
 2014 NMFS Bronze Medal Award as team member for Observer Program Restructuring  
 2012 NMFS Alaska Region Employee of the Year  
 2002 Wendy Graham Memorial Scholarship  
 1998, 1999 Juneau Rotary Scholarship  
 2012 Alaska Sea Grant student expenses grant

**SIGNIFICANT CONTRIBUTING ANALYSIS**

Jan 2019 Development of trawl electronic monitoring program in the North Pacific Pollock Fishery.  
 Jan 2019 Draft Environmental Assessment for the St. Mathews Blue King Crab Rebuilding Plan  
 Oct 2018 Environmental Analysis/Regulatory impact review of funding mechanisms for the North Pacific Observer Program  
 Sept/Dec 2015 Annual Deployment Plan for the North Pacific Observer Program  
 June 2015 Supplement to the Environmental Assessment for Restructuring the Program for Observer Procurement and Deployment in the North Pacific  
 Sept/Dec 2014 Annual Deployment Plan for the North Pacific Observer Program  
 August 2014 Environmental Assessment/Regulatory Impact Review/Final Regulatory Flexibility Analysis for Amendments to the Fishery Management Plan for Groundfish of the Gulf of Alaska. Chinook Salmon Prohibited Species Catch in the Gulf of Alaska Non-pollock Trawl Fisheries (GOA Amendment 97)  
 July 2014 Environmental Assessment for proposed amendment 43 to the Fishery Management Plan for Bering Sea/Aleutian Islands King and Tanner Crabs and proposed amendment 103 to the Fishery Management Plan for Groundfish of the Bering Sea and Aleutian Islands To prevent overfishing and rebuild Pribilof Islands blue king crab  
 Sept/Dec 2013 Annual Deployment Plan for the North Pacific Observer Program  
 Sept/Dec 2012 Annual Deployment Plan for the North Pacific Observer Program  
 Sept. 2012 Regulatory Amendment for a Catch Sharing Plan For the Pacific Halibut Charter Sector and Commercial Setline Sector in International Pacific Halibut Commission Regulatory Area 2C and Area 3A Environmental Assessment/Regulatory Impact Review/Initial Regulatory Flexibility Analysis  
 Feb. 2012 Final Environmental Assessment/ Regulatory Impact Review/ Initial Regulatory Flexibility Analysis for Amendment 93 to the Fishery Management Plan for Groundfish of the Gulf of Alaska. Chinook Salmon Prohibited Species Catch in the Gulf of Alaska Pollock Fishery  
 Sept 2011 Regulatory Impact Review/Final Regulatory Analysis for a regulatory amendment to the Fishery Management Plan for Groundfish of the Bering Sea and Aleutian Islands Management Area. Chinook Salmon 'PSC' Data Collection Program  
 March 2011 Environmental Assessment/Regulatory Impact Review/Initial Regulatory Flexibility Analysis for Proposed Amendment 86 to the Fishery Management Plan for Groundfish of the Bering sea/Aleutian Islands Management Area and Amendment 76 to the Fishery Management Plan for Groundfish of the Gulf of Alaska Restructuring the Program for Observer Procurement and Deployment in the North Pacific  
 Dec. 2008 Final Bering Sea Chinook Salmon Management Environmental Impact Statement/Regulatory Impact Review (BSAI Amendment 91)  
 April 2008 Environmental Assessment/Regulatory Impact Review/ Initial Regulatory Flexibility Analysis for a Regulatory Amendment to Limit Entry in the Halibut Charter Fisheries in IPHC Regulatory Areas 2C and 3A  
 Feb. 2008 Environmental Assessment/Regulatory Impact Review/Final Regulatory Flexibility Analysis for a Regulatory Amendment to Repeal the Vessel Incentive Program

- April 2007 Regulatory Amendment to Modify the Halibut Bag Limit In the Halibut Charter Fisheries in IPHC Regulatory Area 2C
- Nov. 2007 Environmental Assessment/Regulatory Impact Review/Initial Regulatory Flexibility Analysis for a Regulatory Amendment to Implement Guideline Harvest Level Measures in the Halibut Charter Fisheries in International Pacific Halibut Commission Regulatory Area 2C
- Oct. 2006 Discussion paper on the implementation of an annual limit for charter anglers in IPHC Area 2C
- June 2006 Environmental Assessment for the Issuance of an Exempted Fishing Permit to Test a Trawl Gear Modification to Reduce Bycatch Rates for Pacific Halibut in the Central Gulf of Alaska Pacific Cod Trawl
- March 2006 Environmental Analysis for the issuance of an Exempted Fishing Permit to test new gear designed to harvest rockfish in the Gulf of Alaska, Southeast Outside District