



THE STATE  
of ALASKA  
GOVERNOR MICHAEL J. DUNLEAVY

## Department of Fish and Game

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March 21, 2019

Mr. Simon Kinneen Chair  
North Pacific Fishery Management Council  
605 West 4<sup>th</sup> Avenue, Suite 306  
Anchorage, Alaska 99501

Dear Chairman Kinneen,

I would like to nominate Dr. Jie Zheng to serve as an ADF&G member on the Council's Bering Sea and Aleutian Islands (BSAI) Crab Plan Team. Dr. Zheng is a Fishery Scientist within the Commercial Fisheries Division and has over twenty years of experience working with BSAI crab stocks. He is the lead author on the Bristol Bay red king crab stock assessment and a co-author for the Norton Sound red king crab, Aleutian Islands golden king crab, and the St. Matthew Island blue king crab assessments. Dr. Zheng would bring expertise in model development, crab population dynamics, development of harvest strategies for state management plans and rebuilding plans, and extensive knowledge of size-structured assessment models commonly used for crab assessment and management. As Dr. Zheng's attached CV demonstrates, he is a highly qualified nominee.

Thank you for considering Mr. Zheng's appointment at the upcoming April 2019 Council meeting.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Lang".

Doug Vincent-Lang  
Commissioner

## **CURRICULUM VITA**

**Jie Zheng**  
**March 2019**

### **Office:**

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Division of Commercial Fisheries  
Alaska Department of Fish and Game  
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### **CURRENT RESEARCH INTERESTS**

Fisheries Management, Population Dynamics, Stock Assessments, Population Modeling

### **EDUCATION**

1994, Ph.D., Fisheries and Biometry, University of Alaska Fairbanks, USA

1988, M.S., Fisheries, University of Alaska Juneau/Fairbanks, USA

1982, B.S., Marine Fisheries, Zhanjiang Fisheries College, PRC

### **HONORS AND AWARDS**

Meritorious Service Award of the American Fisheries Society, Alaska Chapter, 2002.

Fisheries Research Award, Alaska Department of Fish and Game, 1995.

Natural Resources Fellowship, University of Alaska, 1990-1993.

### **PROFESSIONAL APPOINTMENTS**

April 2005 –present: Fisheries Scientist I, Alaska Department of Fish and Game.

July 2012-June 2015: Affiliate Faculty, University of Alaska Fairbanks.

2004-2007: Affiliate Faculty, University of Alaska Fairbanks.

2004-2007: Affiliate Faculty, Guangdong Ocean University, PRC.

May 2001 –March 2005: Biometrician III, Alaska Department of Fish and Game.

November 1995 – April 2001: Biometrician II, Alaska Department of Fish and Game.

March 1991 – October 1995: Biometrician I, Alaska Department of Fish and Game.

July - August 1993-1997, June - September 1992, July – September 1991 and June - September 1990:

Research Associate, University of Alaska Fairbanks.

September - December 1990: Biometrician I, Alaska Department of Fish and Game.

## REFEREED PUBLICATIONS

- Siddeek, M.S.M., J. Zheng, A.E. Punt, and D. Pengilly. 2017. Effect of data weighting on the mature male biomass estimate for Alaskan golden king crab. CAPAM Data Weighting Workshop, San Diego, California. Fisheries Research, 192: 103-113.
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- Siddeek, M.S.M., J. Zheng, and D. Pengilly 2016. Standardizing CPUE from the Aleutian Islands golden king crab observer data. In: T.J. Quinn II, J.L. Armstrong, M.R. Baker, J. Heifetz, and D. Witherell (eds.), Assessing and Managing Data-Limited Fish Stocks. Alaska Sea Grant, University of Alaska Fairbanks, Alaska, USA, pp. 97-116.
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- Punt, A. E., M. S. M. Siddeek, B. Garber-Yonts, M. Dalton, L. Rugolo, D. Stram, B.J. Turnock, and J. Zheng. 2012. Evaluating the impact of buffers to account for scientific uncertainty when setting TACs: application to red king crab in Bristol Bay, Alaska. – ICES Journal of Marine Science, 69(4): 624-634.
- Bishop, G., J. Zheng, L. M. Slater, K. Spalinger, and R. Gustafson. 2011. The current status of the fisheries for *Chionoecetes* spp. (DECAPODA, OREGONIIDAE) in Alaskan waters. Pp. 109-126 In: New Frontiers in Crustacean Biology. Koninklijke Brill NV, Leiden.
- Zheng, J. and D. Pengilly. 2011. Overview of proposed harvest strategy and minimum size limits for Bering Sea District Tanner crab. Alaska Department of Fish and Game, Divisions of Sport Fish and Commercial Fisheries. Special Publication No. 11-02.
- Zheng, J., L.M. Slater, J. Webb, and G. Bishop. 2011. The current status of biological knowledge relating to the management of fisheries for Tanner (*Chionoecetes bairdi* (Rathbun, 1924)) and snow crabs (*Chionoecetes opilio* (Fabricius, 1788)) in Alaskan waters. Pp. 127-138 In: New Frontiers in Crustacean Biology. Koninklijke Brill NV, Leiden.
- Kruse, G.H., J. Zheng, and D. L. Stram. 2010. Recovery of the Bristol Bay stock of red king crabs under a rebuilding plan. – ICES Journal of Marine Science, 67: 1866–1874.
- Siddeek, M.S.M., L. Rugolo, J. Zheng, and J. Turnock. 2010. New management control rules for Bering Sea and Aleutian Islands crab fisheries. Pp. 537-556. In: (Eds.) G.H. Kruse, G.L. Eckert, R.J. Foy, R.N. Lipcius, B. Sainte-Marie, D.L. Stram, and D. Woodby. Biology and management of exploited crab populations under climate change. Alaska Sea Grant College Program, University of Alaska Fairbanks, Fairbanks. AK-SG-10-01.
- Siddeek, M. S. M., J. Zheng, J. F. Morado, G. H. Kruse, and W. R. Bechtol. 2010. Effect of bitter crab disease on rebuilding in Alaska Tanner crab stocks. – ICES Journal of Marine Science, 67: 2027–2032.

- Zheng, J., D. Pengilly, R. Foy, and D. Barnard. 2010. Stock assessment model evaluation for St. Matthew blue king crab. Pp. 495-516. In: (Eds.) G.H. Kruse, G.L. Eckert, R.J. Foy, R.N. Lipcius, B. Sainte-Marie, D.L. Stram, and D. Woodby. *Biology and management of exploited crab populations under climate change*. Alaska Sea Grant College Program, University of Alaska Fairbanks, Fairbanks. AK-SG-10-01.
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- Siddeek, M.S.M. and J. Zheng. 2007. Evaluating parameters of a MSY control rule for the Bristol Bay, Alaska, stock of red king crabs. – *ICES Journal of Marine Science* 64: 995-1005.
- Zheng, J., J. M. Rumble and G. H. Bishop. 2007. Estimating Southeast Alaska Tanner crab abundance using pot survey and commercial catch data. *Alaska Fisheries Research Bulletin* 12(2):227-242.
- Zheng, J. and G.H. Kruse. 2006. Recruitment variation of eastern Bering Sea crabs: climate-forcing or top-down effects? *Progress in Oceanography* 68:184-204.
- Zheng, J. 2005. A review of natural mortality estimation for crab stocks: data-limited for every stock? Pages 595-612 in G.H. Kruse, V.F. Gallucci, D.E. Hay, R.I. Perry, R.M. Peterman, T.C. Shirley, P.D. Spencer, B. Wilson, and D. Woodby (eds.). *Fisheries Assessment and Management in Data-limited Situation*. Alaska Sea Grant College Program, AK-SG-05-02, Fairbanks.
- Zheng, J. 2003. Uncertainties of natural mortality estimates for eastern Bering Sea snow crab, *Chionoecetes opilio*. *Fisheries Research* 65:411-425.
- Zheng, J. and G.H. Kruse. 2003. Stock-recruitment relationships for three major Alaskan crab stocks. *Fisheries Research* 65:103-121.
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- Zheng, J., G.H. Kruse and D.R. Ackley. 2001. Spatial distribution and recruitment patterns of snow crabs in the eastern Bering Sea. Pages 233-255 In G.H. Kruse, N. Bez, A. Booth, M.W. Dorn, S. Hills, R.N. Lipcius, D. Pelletier, C. Roy, S.J. Smith, and D. Witherel (eds.). *Spatial Processes and Management of Fish Populations*. University of Alaska Sea Grant, AK-SG-01-02, Fairbanks.
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- Zheng, J. and G.H. Kruse. 2000a. Recruitment patterns of Alaskan crabs in relation to decadal shifts in climate and physical oceanography. – ICES Journal of Marine Science 57: 438-451.
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- Zheng, J. and G.H. Kruse. 1999. Evaluation of harvest strategies for Tanner crab stocks that exhibit periodic recruitment. Journal of Shellfish Research 18(2):667-679.
- Zheng, J. and G.H. Kruse. 1998. Stock-recruitment relationships for Bristol Bay Tanner crab. Alaska Fishery Research Bulletin 5(2): 116-130.
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- Zheng, J., G.H. Kruse and M.C. Murphy. 1998. A length-based approach to estimate population abundance of Tanner crab, *Chioneocetes bairdi*, in Bristol Bay, Alaska. Pages 97-105 in G.S. Jamieson and A. Campbell, editors. Proceedings of the North Pacific symposium on invertebrate stock assessment and management. Canadian Special Publication of Fisheries and Aquatic Sciences 125.
- Zheng, J., M.C. Murphy and G.H. Kruse. 1998. Abundance estimation for St. Matthew Island blue king crab using survey and commercial catch and effort data. Pages 575-590 In Fishery Stock Assessment Models, edited by F. Funk, T.J. Quinn II, J. Heifetz, J.N. Ianelli, J.E. Powers, J.F. Schweigert, P.J. Sullivan, and C.-I. Zhang, Alaska Sea Grant College Program Report No. AK-SG-98-01, University of Alaska Fairbanks.
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- Murphy, M.C., W.E. Donaldson and J. Zheng. 1994. Results of a questionnaire on research and management priorities for commercial crab species in Alaska. *Alaska Fishery Research Bulletin* 1: 81-96.
- Zheng, J., F.C. Funk, G.H. Kruse and R. Fagen. 1993. Evaluation of threshold management strategies for Pacific herring in Alaska. Pages 141-166 *In* G. Kruse, D.M. Eggers, R.J. Marasco, C. Pautzke, and T.J. Quinn II [ed.] *Proceedings of the International Symposium on Management Strategies for Exploited Fish Populations*. Alaska Sea Grant College Program Report 93-02, University of Alaska Fairbanks, Fairbanks, Alaska.
- Zheng, J., T.J. Quinn II and G.H. Kruse. 1993. Comparison and evaluation of threshold estimation methods for exploited fish populations. Pages 267-290 *In* G. Kruse, D.M. Eggers, R.J. Marasco, C. Pautzke, and T.J. Quinn II [ed.] *Proceedings of the International Symposium on Management Strategies for Exploited Fish Populations*. Alaska Sea Grant College Program Report 93-02, University of Alaska Fairbanks, Fairbanks, Alaska.
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## **TECHNICAL REPORTS AND CONFERENCE PAPERS**

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- Goldman, K.J., M. Byerly, J. Mumm, J. Rumble, and J. Zheng. 2018. Bottom trawl surveys for Tanner crab in Lower Cook Inlet and Prince William Sound 1990–2015, with harvest strategy recommendations

- for Prince William Sound. Alaska Department of Fish and Game, Fishery Manuscript 18-02, Anchorage.
- Hamazaki, H. and J. Zheng. 2018. Norton Sound red king crab stock assessment for the fishing year 2014/2015. In: the 2018 CPT Crab SAFE reports.
- Siddeek, M.S.M., J. Zheng, C. Siddon, B. Daly, J. Runnebaum, and M.J. Westphal. 2018. Aleutian Islands Golden King Crab Model-Based Stock Assessment. In: the 2018 CPT Crab SAFE reports.
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- Zheng, J. and M.S.M. Siddeek. 2018. Bristol Bay red king crab stock assessment in fall 2018. In: the 2018 CPT Crab SAFE reports.
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- Siddeek, M.S.M., J. Zheng, C. Siddon, B. Daly, and D. Pengilly. 2017. Aleutian Islands Golden King Crab Model-Based Stock Assessment. In: the 2017 CPT Crab SAFE reports.
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- Webber, D., J. Zheng, and J. Ianelli. 2016. Saint Matthew Island blue king crab stock assessment 2016. In: the 2016 CPT Crab SAFE reports.
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- Zheng, J. and D. Pengilly. 2015. Saint Matthew Island blue king crab stock assessment for fall 2015. In: the 2015 CPT Crab SAFE reports.
- Hamazaki, H. and J. Zheng. 2015. Norton Sound red king crab stock assessment for the fishing year 2015/2016. In: the 2015 CPT Crab SAFE reports.
- Zheng, J. and M.S.M. Siddeek. 2014. Bristol Bay red king crab stock assessment in fall 2014. In: the CPT Crab SAFE reports.

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- Siddeek, M.S.M., D. Pengilly and J. Zheng. 2012. Aleutian Islands golden king crab (*Lithodes aequispinus*) model based stock assessment. A draft report for the Crab Stock Assessment Workshop in January, 2012.
- Hamazaki, H. and J. Zheng. 2011. Norton Sound red king crab stock assessment for the fishing year 2011/12. A draft report for the crab SAFE reports.
- M.S.M. Siddeek, D. Pengilly, J. Zheng. 2011. Aleutian Islands Golden King Crab (*Lithodes aequispinus*) Model Based Stock Assessment in Fall 2011.
- Zheng, J. and M.S.M. Siddeek. 2011. Bristol Bay red king crab stock assessment in spring 2011. A draft report for the crab SAFE reports.
- Zheng, J. and M.S.M. Siddeek. 2011. Bristol Bay red king crab stock assessment in fall 2011. A draft report for the crab SAFE reports.
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- Vining, I. and J. Zheng. 2008. Status of king crab stocks in the eastern Bering Sea in 2007. Alaska Department of Fish and Game, Fishery Management Report No. 08-13, Anchorage.
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