



ASCLD/LAB-International
Application for Accreditation
Attachment 2

Statement of Qualifications

Name	Sara Graziano	Date	August 3, 2016
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Forensic Service Provider	Alaska Scientific Crime Detection Laboratory
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Job Title	Forensic Scientist III
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Indicate all disciplines in which you currently perform testing or calibration work:

<input type="checkbox"/>	Drug Chemistry	<input checked="" type="checkbox"/>	Biology
<input type="checkbox"/>	Firearms/Toolmarks	<input type="checkbox"/>	Questioned Documents
<input type="checkbox"/>	Trace Evidence	<input type="checkbox"/>	Crime Scene
<input type="checkbox"/>	Latent Prints	<input type="checkbox"/>	Toxicology - Testing
<input type="checkbox"/>	Digital & Multimedia Evidence	<input type="checkbox"/>	Toxicology - Calibration

For each discipline checked in the table above, list all category(ies) in which you perform work:

-DNA - Nuclear -Body Fluid Identification

Education: List all higher academic institutions attended (list high school only if no college degree has been attained).

Institution	Dates Attended	Major	Degree Completed
Miami University of Ohio	8/1990 – 5/1992	Zoology	n/a
Coastal Carolina University	10/1992 – 5/1995	Marine Science / Biology	B.S. / minor
Auburn University	8/1996 – 5/1998	Fisheries & Aquaculture	n/a
Georgia Inst. of Technology	8/1999 – 12/2001	Applied Biology	M.S.

Continuing Education: List formal coursework, conferences, workshops, in-service and other training received applicable to past and current forensic related positions.

Course Title	Source of Training	Date(s) of Training
ArmedXpert Statistical Software Training	NicheVision, instructor Victor Meles	May 17-19, 2016 (24hrs)
FBI Quality Assurance Standards Auditor Training	FBI computer based training (CBT)	Jan 11-13, 2016 (12hrs)
Quantifiler Trio and Globafiler Kits Validation Teachback	Life Technologies, instructor Jennifer Elliot	Mar 3-5, 2015 (16hrs)
Promega's International Symposium on Human Identification	Workshop 1: Probabilistic Software	Sep 29 - Oct 2, 2014 (8hrs)
Promega's International Symposium on Human Identification	Workshop 2: New Autosomal and Y-STR Loci and Kits	Sep 29 - Oct 2, 2014 (4hrs)
Bloodstain Pattern Analysis I	Instructors Ross Gardner and Tom Griffin	Aug 25 - 29, 2014 (44hrs)
Probabilistic Genotyping and Software Programs	NIST Webinar Part 1 (CBT)	May 28, 2014 (4hrs)
Globafiler Express Validation Teachback	Life Technologies, instructor Jennifer Elliot	Feb 4-5, 2014 (7hrs)
Promega's International Symposium on Human Identification	General meeting attendance	Oct 7-10, 2013 (8hrs)
DNA Mixture Interpretation Workshop Webinar	NIST (CBT), instructors: B. Heidebrecht, J. Butler, M. Coble	Jun 10, 2013 (8hrs)
Paternity Statistics for Forensic Casework	Bode Technologies, instructor Pamela Jarmin	May 29, 2013 - 8 hours
Hair Evaluation for DNA Analysis	WVU online (CBT) course, instructor Sarah Ellis	Oct 17 - Nov 13, 2012 (30hrs)
3500xl with PP16 data, QuantDuo & Y-filer Validation Teachback	Applied Biosystems, instructors Kellie Fenesan & Melissa Kotkin	Oct 8-12, 2012 (29hrs)
3500xl, 7500 RT-PCR and Quant-Duo Training	Applied Biosystems, instructors Joanne Sgueglia & Melissa Kotkin	Sep 18-19, 2012 (8hrs)
QIASymphony and QIAgility training	Qiagen, instructor Dorothy Mei	Aug 21-23, 2012 (5hrs)
CODIS 7.0 Training	FBI (CBT)	Jun 29 - Jul 3, 2012 (8hrs)
American Academy of Forensic Sciences Annual Meeting	Advanced DNA Mixture Interpretation Workshop, instructors Kalafut, Sutton	Feb 20-21, 2012 (13.5hrs)
Population Genetics & Evolutionary Processes (BIOL A489)	University of Alaska, Anchorage semester course	Aug - Dec 2011 (3 credit hrs)
DNA Statistics Workshop	Course given at ASCDL, instructor Bruce Budowle	Aug 8-11, 2011 (22hrs)
Microscopy of Sperm Training	Course given at ASCDL, instructor Kristin Denning	Mar 21, 2011 (6hrs)
DNA Mixture Interpretation Conference	NIST, instructors Buckleton, Coble, Bille, Crenshaw, Maguire, Ballentyne	Mar 15-17, 2009 (8hrs)
Documenting and Collecting Snow Impression Evidence	Course given at ASCDL, instructor Jim Wolfe	Jan 20, 2011 (6hrs)
CODIS Software Training	FBI course instructor Meghan Carlin	Sep 20-24, 2010 (36hrs)
Joint Association of Forensic Scientists Meeting	Workshop 1: Y-STR technology	Oct 18-23, 2009 (8hrs)
Joint Association of Forensic Scientists Meeting	Workshop 2: DNA Identification for missing persons/disasters	Oct 18-23, 2009 (4hrs)
NIJ Annual Conference	General meeting attendance	June 15-17, 2009 (8hrs)
GeneMapper® ID-X v1.0 Software Training	Applied Biosystems, instructor April Orbison	Oct 28-30, 2008 (18hrs)
Summer Institute of Statistical Genetics	Population Genetic Data Analysis for Natural Populations (Weir & Holsinger)	Jun 14-23, 2006 (20hrs)
Summer Institute of Statistical Genetics	MCMC for Genetics (Eric Anderson & Matthew Stephens)	Jun 14-23, 2006 (20hrs)
Summer Institute of Statistical Genetics	Advanced Pedigree Analysis using MCMC (Elizabeth Thompson, Shili Lin)	Jun 14-23, 2006 (20hrs)

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Testimony: Complete the information below for testimony provided.

Discipline or Category of Testimony	Period of Time in Which Testimony Occurred	Approximate Number of Times Testified
DNA analysis	June 2011 – May 2016	35

Professional Affiliations: List professional organizations of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

Organization	Period of Membership	Offices or Positions Held/Dates
American Society of Microbiology	1998 – 2001	n/a
American Fisheries Society	2004 – 2008	n/a

Employment History: List all scientific or technical positions held, particularly those related to forensic science. **List current position first.** Add additional sections as necessary.

Job Title	Forensic Scientist III	Tenure	9/2011 - present
Employer	Alaska Scientific Crime Detection Laboratory		
Provide a brief description of principal duties:			
Generate, interpret and report genetic results for forensic evidence, conduct technical and administrative reviews of cases, conduct validation studies as needed.			

Job Title	Forensic Scientist II	Tenure	9/2009 – 9/2011
Employer	Alaska Scientific Crime Detection Laboratory		
Provide a brief description of principal duties:			
Generate, interpret and report genetic results for forensic evidence, conduct technical and administrative reviews of cases, conduct validation studies as needed.			

Job Title	Forensic Scientist I	Tenure	9/2008 – 9/2009
Employer	Alaska Scientific Crime Detection Laboratory		
Provide a brief description of principal duties:			
Generate, interpret and report genetic results for forensic evidence.			

Job Title	Geneticist, GS-11	Tenure	9/2003 – 9/2008
Employer	U.S. Geological Survey		
Provide a brief description of principal duties:			
Generate, interpret and report genetic results for fish and wildlife populations (STR analysis, mtDNA and gene sequencing).			

Job Title	Animal Care Specialist/Research Facility Technician	Tenure	5/2001 – 1/2002
Employer	Zygogen LLC.		
Provide a brief description of principal duties:			
Maintain and operate a fish rearing facility for molecular research.			

Other Qualifications: List below all personal certifications identifying the issuing organization and the dates; all scientific publications and/or presentations you have authored or co-authored, research in which you are or have been involved, academic or other teaching positions you have held, and any other information which you consider relevant to your qualifications.

PEER REVIEWED PUBLICATIONS:

Nielsen, J.L., A. Byrne, S.L. Graziano and C. Kofzcay. 2009. Steelhead genetic diversity at multiple scales in a managed basin: Snake River, Idaho. North America J. of Fisheries Management 29:680-701.

Nielsen, J.L., S.L. Graziano and A.C. Seitz. 2009. Fine-scale population structure in Alaskan Pacific halibut (*Hippoglossus stenolepis*). Conservation Genetics 11(3):999-1012.

Ramey, A., S.L. Graziano and J.L. Nielsen. 2008. Isolation and characterization of microsatellite loci from the Arctic Cisco (*Coregonus autumnalis*). Molecular Ecology Resources 8:357-359.



Williams, I., G.H. Reeves, S.L. Graziano, J.L. Nielsen. 2007. Genetic investigation of natural hybridization between rainbow trout and cutthroat trout in the Copper River Delta, Alaska. *Transactions of the American Fisheries Society* 136:926-942.

Graziano, S.L., K.H. Brown and J.L. Nielsen. 2005. Nomenclature of mitochondrial DNA haplotypes for *Oncorhynchus mykiss*. *Transactions of the American Fisheries Society* 134:1271-1273.

Plumb, J. A., A.D. Noyes, S. Graziano, J. Wang, J. Mao and V.G. Chinchar. 1999. Isolation and identification of viruses from adult largemouth bass during a 1997-1998 survey in the southeastern United States. *Journal of Aquatic Animal Health* 11:391-399.

TECHNICAL REPORTS:

Nielsen, J.L., C.E. Zimmerman, S.L. Graziano, A. Ramey, and V. VanBiela. 2008. Testing molecular and otolith tools to investigate population-of-origin and migration in Arctic Cisco found in the Colville River, Alaska. Annual technical report submitted to Minerals Management Services (MMS), Anchorage, AK, April 2008.

Graziano, S.L. and J.L. Nielsen. 2008. Assessment of individual genotypes, genetic lineages and circadian rhythm genes in brown bears (*Ursus arctos*) at Brooks River, Katmai National Park and Preserve, AK. NRPP PMIS-5561: Progress Report 2008.

Nielsen, J.L., C.E. Zimmerman, S.L. Graziano and A. Ramey. 2007. Testing molecular and otolith tools to investigate population-of-origin and migration in Arctic Cisco found in the Colville River, Alaska. Pilot study progress report submitted to Minerals Management Services (MMS), Anchorage, AK, April 2007.

Graziano, S.L. and J.L. Nielsen. 2006. Brooks River brown bear project: Progress Report 2006. Technical report submitted to National Park Service, King Salmon, AK, October 2006.

Nielsen, J.L., S.L. Graziano, I. Williams and A. Byrne. 2005. Genetic population structure of Snake River basin steelhead in Idaho. Final technical report submitted to Idaho Department of Fish and Game, Boise, ID, March 2005.

Nielsen, J.L., T.C. Wiacek and S.L. Graziano. 2005. Population genetic structure of rainbow trout in the upper Ventura River watershed based on microsatellite and mtDNA analyses. Final technical report submitted to U.S.G.S. Western Fisheries Research Center, Seattle, WA, August 2005.

Graziano, S.L. and J.L. Nielsen. 2004. Genetic population structure of rainbow trout from the White Salmon River sub-drainage: Including inference on hybridization with coastal cutthroat trout. Technical report submitted to U.S. Forest Service, Gifford Pinchot National Forest, Wind River, WA, June 2004.

POSTERS and PRESENTATIONS:

V.L. DeBoer, S.L. Graziano, C.M. Duda and M.L. Collins. "Internal Validation of GlobalFiler Express Good Faith Efforts Protocols". Poster presented at Promega's International Symposium on Human Identification, Phoenix, AZ, October 2014.

S.L. Graziano, C.M. Duda and M.L. Collins. "DNAstable® LD Validation Project". Poster presented at Promega's International Symposium on Human Identification, Atlanta, GA, October 2013.

S.L. Graziano, A. Chidambaram and M.L. Collins. "Success Stories Using NIJ Funding". Poster presented at the National Institute of Justice Annual Meeting, Arlington, VA, June 2009.

S.L. Graziano and J.L. Nielsen. "Population Genetic Survey of Brown Bears at Brooks River". Poster presented at the Alaska Chapter of the Wildlife Society Annual Meeting, Anchorage, AK, April 2008.

S.L. Graziano and J.L. Nielsen. "Genetic Analysis of Alaskan Pacific Halibut". Poster presentation at the American Fisheries Society Annual Meeting, San Francisco, CA, September 2007.

Ramey, A., S.L. Graziano and J.L. Nielsen. "Testing molecular tools to investigate population-of-origin and migration of Arctic Cisco (*Coregonus autumnalis*) collected in the Colville River, Alaska." Poster presentation at the American Fisheries Society Annual Meeting, San Francisco, CA, September 2007.

S.L. Graziano, J.L. Nielsen, R. Valenzuela, and A. Byrne. "Genetic Population Structure of Snake River Basin Steelhead in Idaho". Invited presentation given at the Coastwide Salmonid Genetics Conference, Newport, OR, June 2004.

S.L. Graziano, I. Williams, G.K. Sage, C.E. Zimmerman, and J.L. Nielsen. "The importance of genetic verification for determination of Atlantic salmon in North Pacific waters." Invited poster presented at the Invasive species symposium – The Western section of the Wildlife Society, Sacramento, CA, October 2003.

