



STATE OF ARKANSAS
OFFICE OF PROCUREMENT
ARKANSAS DEPARTMENT OF HUMAN SERVICES
700 Main Street
Little Rock, Arkansas 72203

BID RESPONSE PACKET
710-18-1004

CAUTION TO VENDOR

Vendor's failure to submit required items and/or information as specified in the *Bid Solicitation Document* **shall** result in disqualification.

BID SIGNATURE PAGE

Type or Print the following information.

PROSPECTIVE CONTRACTOR'S INFORMATION				
Company:	SAS Institute Inc.			
Address:	100 SAS Campus Drive			
City:	Cary	State:	NC	Zip Code: 27513
Business Designation:	<input type="checkbox"/> Individual <input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Public Service Corp <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Nonprofit			
Minority and Women-Owned Designation*:	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> American Indian <input type="checkbox"/> Asian American <input type="checkbox"/> Service Disabled Veteran <input type="checkbox"/> African American <input type="checkbox"/> Hispanic American <input type="checkbox"/> Pacific Islander American <input type="checkbox"/> Women-Owned			
	AR Certification #: _____ * See <i>Minority and Women-Owned Business Policy</i>			

PROSPECTIVE CONTRACTOR CONTACT INFORMATION			
Provide contact information to be used for bid solicitation related matters.			
Contact Person:	Jon Anne Howard	Title:	Senior Account Executive
Phone:	(919) 531-6213	Alternate Phone:	919-677-8000
Email:	JonAnne.Howard@sas.com		

CONFIRMATION OF REDACTED COPY
<input type="checkbox"/> YES, a redacted copy of submission documents is enclosed. <input checked="" type="checkbox"/> NO, a redacted copy of submission documents is <u>not</u> enclosed. I understand a full copy of non-redacted submission documents will be released if requested.
<p><i>Note: If a redacted copy of the submission documents is not provided with Prospective Contractor's response packet, and neither box is checked, a copy of the non-redacted documents, with the exception of financial data (other than pricing), will be released in response to any request made under the Arkansas Freedom of Information Act (FOIA). See Bid Solicitation for additional information.</i></p>

ILLEGAL IMMIGRANT CONFIRMATION
By signing and submitting a response to this <i>Bid Solicitation</i> , a Prospective Contractor agrees and certifies that they do not employ or contract with illegal immigrants. If selected, the Prospective Contractor certifies that they will not employ or contract with illegal immigrants during the aggregate term of a contract.

ISRAEL BOYCOTT RESTRICTION CONFIRMATION
By checking the box below, a Prospective Contractor agrees and certifies that they do not boycott Israel, and if selected, will not boycott Israel during the aggregate term of the contract.
<input checked="" type="checkbox"/> Prospective Contractor does not and will not boycott Israel.

An official authorized to bind the Prospective Contractor to a resultant contract must sign below.

The signature below signifies agreement that any exception that conflicts with a Requirement of this *Bid Solicitation* will cause the Prospective Contractor's bid to be disqualified:

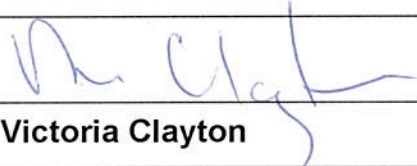

Authorized Signature:   Title: Sr Manager, Licensing Operations

Printed/Typed Name: Victoria Clayton Date: April 3, 2018

SECTION 1 - VENDOR AGREEMENT AND COMPLIANCE

- Any requested exceptions to items in this section which are NON-mandatory **must** be declared below or as an attachment to this page. Vendor **must** clearly explain the requested exception, and should label the request to reference the specific solicitation item number to which the exception applies.
- Exceptions to Requirements **shall** cause the vendor's proposal to be disqualified.

By signature below, vendor agrees to and **shall** fully comply with all Requirements as shown in this section of the bid solicitation.*



Vendor Name:	SAS Institute Inc.		Date:	April 3, 2018
Signature:			Title:	Sr Manager, Licensing Operations
Printed Name:	Victoria Clayton			

*Please note that the Bid Solicitation does not contain all needed terms for SAS' proposed software-as-a-service solution in response to the Bid Solicitation. Therefore, notwithstanding anything else in the Bid Solicitation to the contrary, SAS' bid and execution hereof do not form a contract and are contingent on the parties separate agreement to any resulting contract that will contain mutually agreed upon terms, conditions, warranties and certifications in such form as may be agreed upon by the parties. SAS agrees that the Bid Solicitation terms, conditions, warranties and certifications, along with any other necessary terms, will form the basis from which the parties will negotiate any resulting contract. SAS looks forward to working with the Office of Procurement to establish a mutually agreeable contract to provide DHS with the needed County Profiles solution.

SECTION 2 - VENDOR AGREEMENT AND COMPLIANCE

- Any requested exceptions to items in this section which are NON-mandatory must be declared below or as an attachment to this page. Vendor must clearly explain the requested exception, and should label the request to reference the specific solicitation item number to which the exception applies.
- Exceptions to Requirements shall cause the vendor's proposal to be disqualified.

By signature below, vendor agrees to and shall fully comply with all Requirements as shown in this section of the bid *solicitation.

Vendor Name:	SAS Institute Inc.		Date:	April 3, 2018
Signature:			Title:	Sr Manager, Licensing Operations
Printed Name:	Victoria Clayton			


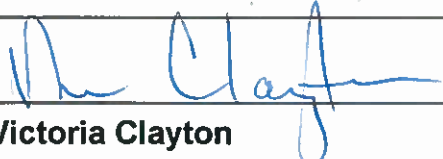
*Please note that the Bid Solicitation does not contain all needed terms for SAS' proposed software-as-a-service solution in response to the Bid Solicitation. Therefore, notwithstanding anything else in the Bid Solicitation to the contrary, SAS' bid and execution hereof do not form a contract and are contingent on the parties separate agreement to any resulting contract that will contain mutually agreed upon terms, conditions, warranties and certifications in such form as may be agreed upon by the parties. SAS agrees that the Bid Solicitation terms, conditions, warranties and certifications, along with any other necessary terms, will form the basis from which the parties will negotiate any resulting contract. SAS looks forward to working with the Office of Procurement to establish a mutually agreeable contract to provide DHS with the needed County Profiles solution.

SECTION 3 - VENDOR AGREEMENT AND COMPLIANCE

- *Exceptions to Requirements shall cause the vendor's proposal to be disqualified.*

Please note that SAS' employee, Solution Architect Victor Sterling, is a former employee of the Department of Human Services. To our knowledge following inquiry with Victor, Victor did not have any input on the Bid Solicitation, SAS desires to disclose that Victor Sterling is a former DHS employee.

By signature below, vendor agrees to and shall fully comply with all Requirements as shown in this section of the bid solicitation.*


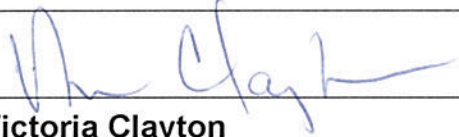
Vendor Name:	SAS Institute Inc.		Date:	April 3, 2018
Signature:			Title:	Sr Manager, Licensing Operations
Printed Name:	Victoria Clayton			

*Please note that the Bid Solicitation does not contain all needed terms for SAS' proposed software-as-a-service solution in response to the Bid Solicitation. Therefore, notwithstanding anything else in the Bid Solicitation to the contrary, SAS' bid and execution hereof do not form a contract and are contingent on the parties separate agreement to any resulting contract that will contain mutually agreed upon terms, conditions, warranties and certifications in such form as may be agreed upon by the parties. SAS agrees that the Bid Solicitation terms, conditions, warranties and certifications, along with any other necessary terms, will form the basis from which the parties will negotiate any resulting contract. SAS looks forward to working with the Office of Procurement to establish a mutually agreeable contract to provide DHS with the needed County Profiles solution.

SECTION 4 - VENDOR AGREEMENT AND COMPLIANCE

- *Exceptions to Requirements shall cause the vendor's proposal to be disqualified.*

By signature below, vendor agrees to and **shall** fully comply with all Requirements as shown in this section of the bid solicitation.*

Vendor Name:	SAS Institute Inc.		Date:	April 3, 2018
Signature:			Title:	Sr Manager, Licensing Operations
Printed Name:	Victoria Clayton			

*Please note that the Bid Solicitation does not contain all needed terms for SAS' proposed software-as-a-service solution in response to the Bid Solicitation. Therefore, notwithstanding anything else in the Bid Solicitation to the contrary, SAS' bid and execution hereof do not form a contract and are contingent on the parties separate agreement to any resulting contract that will contain mutually agreed upon terms, conditions, warranties and certifications in such form as may be agreed upon by the parties. SAS agrees that the Bid Solicitation terms, conditions, warranties and certifications, along with any other necessary terms, will form the basis from which the parties will negotiate any resulting contract. SAS looks forward to working with the Office of Procurement to establish a mutually agreeable contract to provide DHS with the needed County Profiles solution.

CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM

Failure to complete all of the following information may result in a delay in obtaining a contract, lease, purchase agreement, or grant award with any Arkansas State Agency.

SUBCONTRACTOR: _____ SUBCONTRACTOR NAME: _____

Yes No

TAXPAYER ID NAME: SAS Institute Inc. IS THIS FOR: Goods? Services? Both?

YOUR LAST NAME: _____ FIRST NAME: _____ M.I.: _____

ADDRESS: 100 SAS Campus Drive

CITY: Cary STATE: NC ZIP CODE: 27513 COUNTRY: USA

AS A CONDITION OF OBTAINING, EXTENDING, AMENDING, OR RENEWING A CONTRACT, LEASE, PURCHASE AGREEMENT, OR GRANT AWARD WITH ANY ARKANSAS STATE AGENCY, THE FOLLOWING INFORMATION MUST BE DISCLOSED:

FOR INDIVIDUALS *

Indicate below if: you, your spouse or the brother, sister, parent, or child of you or your spouse is a current or former: member of the General Assembly, Constitutional Officer, State Board or Commission Member, or State Employee:

Position Held	Mark (√)		Name of Position of Job Held <small>[senator, representative, name of board/ commission, data entry, etc.]</small>	For How Long?		What is the person(s) name and how are they related to you? <small>[i.e., Jane Q. Public, spouse, John Q. Public, Jr., child, etc.]</small>	
	Current	Former		From MM/YY	To MM/YY	Person's Name(s)	Relation
General Assembly							
Constitutional Officer							
State Board or Commission Member							
State Employee							

None of the above applies

FOR AN ENTITY (BUSINESS) *

Indicate below if any of the following persons, current or former, hold any position of control or hold any ownership interest of 10% or greater in the entity: member of the General Assembly, Constitutional Officer, State Board or Commission Member, State Employee, or the spouse, brother, sister, parent, or child of a member of the General Assembly, Constitutional Officer, State Board or Commission Member, or State Employee. Position of control means the power to direct the purchasing policies or influence the management of the entity.

Position Held	Mark (√)		Name of Position of Job Held <small>[senator, representative, name of board/commission, data entry, etc.]</small>	For How Long?		What is the person(s) name and what is his/her % of ownership interest and/or what is his/her position of control?		
	Current	Former		From MM/YY	To MM/YY	Person's Name(s)	Ownership Interest (%)	Position of Control
General Assembly								
Constitutional Officer								
State Board or Commission Member								
State Employee								

None of the above applies

Contract and Grant Disclosure and Certification Form

Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that Order, shall be a material breach of the terms of this contract. Any contractor, whether an individual or entity, who fails to make the required disclosure or who violates any rule, regulation, or policy shall be subject to all legal remedies available to the agency.

As an additional condition of obtaining, extending, amending, or renewing a contract with a state agency I agree as follows:


1. Prior to entering into any agreement with any subcontractor, prior or subsequent to the contract date, I will require the subcontractor to complete a **CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM**. Subcontractor shall mean any person or entity with whom I enter an agreement whereby I assign or otherwise delegate to the person or entity, for consideration, all, or any part, of the performance required of me under the terms of my contract with the state agency.

2. I will include the following language as a part of any agreement with a subcontractor:

Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that Order, shall be a material breach of the terms of this subcontract. The party who fails to make the required disclosure or who violates any rule, regulation, or policy shall be subject to all legal remedies available to the contractor.

3. No later than ten (10) days after entering into any agreement with a subcontractor, whether prior or subsequent to the contract date, I will mail a copy of the **CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM** completed by the subcontractor and a statement containing the dollar amount of the subcontract to the state agency.

I certify under penalty of perjury, to the best of my knowledge and belief, all of the above information is true and correct and that I agree to the subcontractor disclosure conditions stated herein.

Signature  Title Senior Manager Date March 30, 2018

Vendor Contact Person Jon Anne Howard Title Senior Account Executive Phone No. 919-531-6213



Agency use only

Agency Number _____ Agency Name _____ Agency Contact Person _____ Contact Phone No. _____ Contract or Grant No. _____



THE
POWER
TO KNOW.

SAS Equal Employment Opportunity and Affirmative Action Policy Statement

SAS recognizes that our people make the difference. Our diverse workforce brings unique talents inspiring teams to create software that not only reflects the diversity of those using it but that can change the world. It is our priority to foster an environment where different perspectives are encouraged and valued because great ideas ignite when everyone is treated with fairness and respect.

We are committed to creating a diverse and inclusive environment and are proud to be an equal opportunity employer that treats all employees and applicants equally based on merit and experience – without regard to race, ethnicity, gender identity or expression, sexual orientation, veteran's status, pregnancy, religion, national origin, age, disability, genetic information, marital status, citizenship status, or any other protected class under the law. We recruit, hire, train, and promote without regard to protected characteristics and ensure that all our employment decisions are based only on valid job requirements.


SAS provides equitable treatment and reasonable accommodations for employees and applicants with disabilities in accordance with individual needs, business needs, and applicable federal, state and local laws, unless the accommodation would impose undue hardship on the operation of SAS' business. Our aim is that at all practices involving recruiting, hiring, career growth and development, compensation, benefits, terminations, company-sponsored programs, and treatment on the job be free of unlawful discriminatory practices. It is our policy to take affirmative action to employ, advance in employment, and otherwise treat qualified minorities, women, protected veterans, and individuals with disabilities without regard to their race/ethnicity, sex/sexual orientation/gender identity, veteran status, or physical or mental disability.

We will not tolerate any forms of harassment and discrimination, including but not limited to: intimidation, threats, coercion, or retaliation because employees or applicants have engaged, or may engage, in any of these activities:

(1) filing a complaint; (2) assisting or participating in an investigation, compliance review, hearing, or any other activity related to Section 4212 or the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended ("Section 4212") or Section 503, of the Rehabilitation Act of 1973, as amended ("Section 503") or other laws protecting veterans and individuals with disabilities, (3) opposing any act or practice made unlawful by Section 4212 or Section 503 or other laws protecting veterans or individuals with disabilities; or (4) exercising any other right protected by these laws or their implementing regulations.

As CEO, I have delegated the overall responsibility for SAS' Equal Employment Opportunity and Affirmative Action Programs to our Executive Vice President and Chief Human Resources Officer. However, it is the responsibility of every manager at SAS to uphold our commitment to diversity and inclusion, and abide by the Equal Employment Opportunity Policy.

The affirmative action plan for individuals with disabilities and protected veterans (disabled veterans, recently separated veterans, Armed Forces Service Medal veterans, or active duty wartime or campaign badge veterans) are available for employees or applicants for employment to review during regular business hours. If you would like to voluntarily complete a self-identification form to identify yourself as a person with a disability or a covered veteran, or to review this Plan, please contact your HR Business Partner.


Jim Goodnight, CEO of SAS

SAS INSTITUTE INC. WORLD HEADQUARTERS SAS CAMPUS DRIVE CARY, NC 27513
TEL: 919 677 8000 FAX: 919 677 4444 U.S. SALES: 800 727 0025 WWW.SAS.COM

State of Arkansas
DEPARTMENT OF HUMAN SERVICES
OFFICE OF PROCUREMENT
700 South Main Street
P.O. Box 1437 / Slot W345
Little Rock, AR 72203

ADDENDUM 1

DATE: April 3, 2018

SUBJECT: 710-18-1004 Data Management and Analysis

The following change(s) to the above referenced Competitive Bid for DHS has been made as designated below:

- Change of specification(s)**
- Additional specification(s)
- Change of bid submission/opening date and time**
- Cancellation of bid
- Other

BID OPENING DATE AND TIME

Bid opening date and time *will change to:* **April 6, 2018, 1:00 PM CST**

CHANGE OF SPECIFICATION(S)

No change to specifications

The specifications by virtue of this addendum become a permanent addition to the above referenced Invitation for Bid.

FAILURE TO RETURN THIS SIGNED ADDENDUM MAY RESULT IN REJECTION OF YOUR BID.

If you have questions, please contact the buyer Margurite.al-uqdah@dhs.arkansas.gov or 501-682-8743.

Don P Claph  4/4/2018
Vendor Signature Date

SAS Institute Inc.
Company



Documentation That Vendor Meets the Minimum Qualifications

Drs. Halil Toros and Jim Georges will support the project as Analytic Leads. Halil and Jim have worked on child welfare projects in their time working with SAS. For instance, starting in 2014, Halil and Jim worked with a county in California. This project was focused on protecting children in the county. SAS ranked children based on their risk for abuse, and give social workers more access to critical information that would help them steer families to the services that will be most effective. The project also focused on providing social workers with access to critical information, such as a family's past interactions with the county's departments of mental health, public health and probation. In addition, Halil and Jim also worked with a state agency in the Southeastern United States. This project was a series of research projects focused on different ways to ensure the welfare of the children in the states. These projects particularly studied child fatalities and perpetrators with chronic child maltreatment histories to predict child abuse and neglect, child fatalities and chronic perpetrators at the time of screening and investigations. The projects provided insights to the department to design effective and efficient prevention programs.

Halil and Jim's work in the child welfare domain continued in working with a county in North Carolina. This work has focused on protecting the children within the county's foster care system and ensuring that they are put in the best situation to ensure a healthy and productive childhood. In addition to Halil and Jim, SAS will work with DCFS stakeholders to determine what additional support roles are needed such as Project Manager or Quality Assurance.

Resumes are provided beginning on the following page. Due to SAS policy and employee privacy, we are not able to provide official college transcripts for our employees. SAS affirms that Dr. Halil Toros and Dr. Jim Georges both exceed the minimum qualification of a bachelor's degree.



Documentation That Vendor Meets the Minimum Qualifications

Drs. Halil Toros and Jim Georges will support the project as Analytic Leads. Halil and Jim have worked on child welfare projects in their time working with SAS. For instance, starting in 2014, Halil and Jim worked with a county in California. This project was focused on protecting children in the county. SAS ranked children based on their risk for abuse, and give social workers more access to critical information that would help them steer families to the services that will be most effective. The project also focused on providing social workers with access to critical information, such as a family's past interactions with the county's departments of mental health, public health and probation. In addition, Halil and Jim also worked with a state agency in the Southeastern United States. This project was a series of research projects focused on different ways to ensure the welfare of the children in the states. These projects particularly studied child fatalities and perpetrators with chronic child maltreatment histories to predict child abuse and neglect, child fatalities and chronic perpetrators at the time of screening and investigations. The projects provided insights to the department to design effective and efficient prevention programs.

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Revised information, below, provided on April 9, 2018:

SAS understands the importance of verifying the academic credentials of personnel. While it is not SAS' policy to furnish our employees' academic transcripts, please rest assured that SAS Human Resources checks and verifies employee's academic credentials before employment can occur. Specifically, as part of the hiring process, employment reference checks and verification of academic credentials are conducted by SAS Human Resources/Talent Acquisition for all final candidates, prior to any offer of employment by SAS. Such was the case for our proposed personnel for this project, Dr. Halil Toros and Dr. Jim Georges. Halil received bachelor's degrees in economics and statistics from Middle East Technical University, and subsequently earned an MA and Ph.D. from the University of Southern California. Jim earned bachelor's degrees in physics and mathematics from California Polytechnic State University, and later, an MS and Ph.D from Boston University.

Qualifying and length of experience are as follows. Please see resumes for additional details:

Dr. Halil Toros

Program Specialist IV, County of Los Angeles, Chief Administrative Office, Service Integration Branch, Research and Evaluation, April 2001 to March 2013



Worked with Departments of Public Social Services and Department of Children Services to develop analytical models in predicting outcomes such as the likelihood of SSI approval, the likelihood of finding employment after receiving supportive housing and child abuse risks.

- Acted as the project technical lead in the development of a data mining solution for child care fraud needed for DPSS. Developed POC with SAS demonstrating that the proposed solution is estimated to save the County millions of dollars.
- Worked as a lead analyst in developing research plans, collecting and analyzing welfare data, designing and analyzing survey data, writing and presenting reports and making recommendations for the solution of programmatic problems related to the delivery of welfare services to children and families.
- Designed and evaluated the impact of pilot programs and new policy changes in welfare services by applying complex analytical methods and making recommendations to improve the implementation of programs.

Public Policy Analytics, LLC. (Co-founder Dr. Halil Toros), April 2013 – August 2014

Public Policy Analytics LLC (PPA) was founded in 2012 by Dr. Manuel Moreno and Dr. Halil Toros to provide government agencies with technical services to build capacity using administrative data and predictive analytic for making data-based policy and program decisions that translate into effective and efficient policies. PPA was built based on the experience and practice of Drs. Toros and Moreno conducting actionable research for Los Angeles County, developing tools built on research and deploying predictive models to evaluate and improve the public programs and services provided to vulnerable populations for almost 30 years. Below is a description of some of the kinds of projects our team has implemented, turning raw data into actionable intelligence to improve social services.

The work of PPA staff in Los Angeles County generating evidence to guide and inform program and policy decisions led to the development and implementation of validating tools based on research. In 2007, PPA staff piloted the concept of integrating administrative records from the Department of Community and Senior Services, Health Services, Mental Health, Public Health Children and Family Services, Probation, and the Sheriff Department. The goal was to create a central repository of data for use in policy research and evaluation and to assist case workers and administrators of public programs in providing more efficient, identifying redundant services, and identifying the characteristics of factors correlated with certain patterns of service utilization and to assess risk to families and children.

SAS, Principal Analytic Consultant, September 2014 - present

Consulting support for Florida Department of Child and Families and Los Angeles County child welfare projects.



References

[Note: the following persons are serving as references for both Halil Toros and Jim Georges].

Phone number and e-mail address for previous employers and/or contract managers who can verify qualifying experience.

Dr. Manuel Moreno, former Director of Research, Chief Executive Office, Los Angeles County
manuelmorenoh@gmail.com
310-853-9854

Jin-Whan Jung, SAS, Senior Director Consulting
Jin-Whan.Jung@sas.com
919- 531-1981

Resumes are provided beginning on the following page.

Halil Toros, Principal Analytical Consultant

Education

Ph.D. Political Economy and Public Policy, University of Southern California	1991
MA Economics, University of Southern California	1984
B.Sc Economics and Statistics, Middle East Technical University	1979

Position History

Principal Analytical Consultant , SAS Institute Inc.	2014-present
Chief Analytics Officer , Public Policy Analytics	2013-2014
Adjunct Professor , University of Southern California	2007-2013
Program Specialist IV , County of Los Angeles, Chief Administrative Office	2001-2013
Senior Support Analyst , County of Los Angeles, Chief Administrative Office	1994-1999
Support Analyst II , County of Los Angeles, Internal Services Department	1987-1994
Instructor , California State University at Dominguez Hills	1985-1990

Selected Awards, Papers, Presentations, and Patents

Halil Toros and Dan Flaming, Prioritizing homeless assistance using predictive algorithms, Cityscape: A Journal of Policy Development and Research	March 2018
Halil Toros and James Georges, Can predictive analytics help us to identify chronically reported perpetrators? A new approach for effective and efficient child protection system. To be submitted to Child Maltreatment	May 2017
Halil Toros, Can we pick which homeless get housing using predictive algorithms? An evidence based approach to prioritize high-cost and high-need homeless persons for permanent supportive housing. Presented at APPAM Conference, Washington. D.C.	Nov 2016
Thomas Byrne, Stephen Metraux, Minseop Kim, Dennis P. Culhane, Halil Toros Public Assistance Receipt among older youth exiting foster care. Children and Youth Services	July 2014
Thomas Byrne, Stephen Metraux, Manuel Moreno, Dennis P. Culhane, Halil Toros, Max Stevens, Los Angeles County's Enterprise Linkages Project: An Example of the Use of Integrated Data Systems in Making Data-Driven Policy and Program Decisions. California Journal of Politics & Policy	June 2012



Dr. Jim Georges, Director of Analytic Consulting

Experience

Director of Analytic Consulting , SAS Institute Inc.	2013-Present
Manager of Analytic Consulting , SAS Institute, Inc.	2011-2013
Senior Analytic Consultant , SAS Institute, Inc.	2009-2011
Statistic Services Specialist , SAS Institute, Inc.	1995-2009

Expertise

Analytic Methods

Predictive Modeling
Data visualization tools
Fuzzy Matching Technology
Survival Analysis Methodology
Interactive educational software
Unsupervised Classification Techniques
Data Preparation for Advanced Analytics

Software

SAS®
SAS/STAT® software
SAS® Enterprise Miner™
SAS® Forecasting for Resellers
SAS® Forecast Studio
SAS® Fraud Management
SAS® Social Network Analysis
JMP®
Microsoft Office

Application Domains

Consumer Credit Fraud
Social Services Fraud
Child Safety Analytics
Customer Intelligence
Worker Compensation Fraud
Insurance Fraud
Marketing Optimization
Automotive Analytics

Degrees and Credentials

Ph.D. Mathematics and Statistics, Boston University
MS Mathematics, Boston University
BS Physics, California Polytechnic State University
BS Mathematics, California Polytechnic State University