





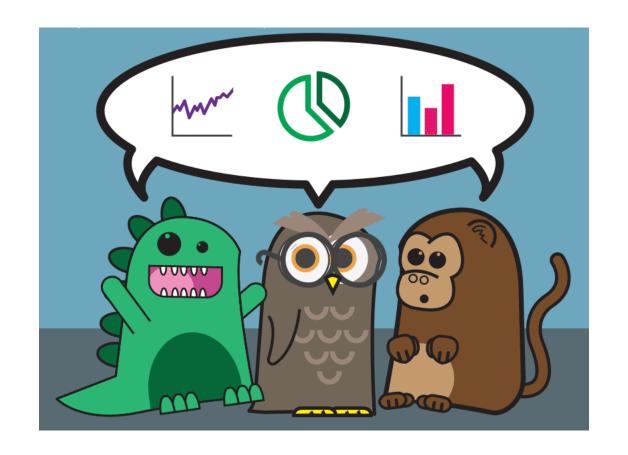
GGC5039 / ESS419

Academic Communication

Section 4-2: Presentations at Conferences (Poster)

Instructor: Dikun Yang

Term: Fall 2020-2021



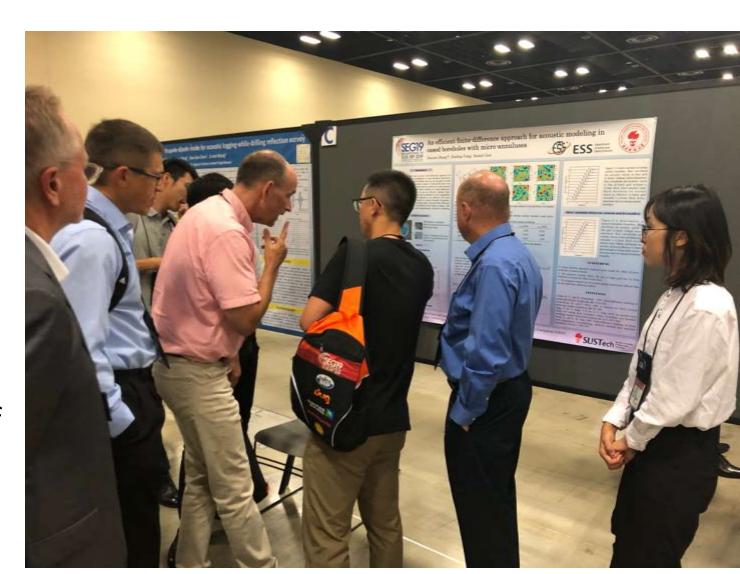
Outline

- Section 1: Introduction (2 hr)
- Section 2: International communications (2 hr)
- Section 3: Writing and publishing (8 hr) Assignment 15%
- Section 4: **Presentations at conferences** (6 hr) Assignment 15%
- Section 5: Writing proposals and applications (6 hr) Assignment 15%
- Section 6: **Interviews** (4 hr) Assignment 15%
- Section 7: **New media** (2 hr) Assignment 15%
- Section 8: Integrated practice (2 hr) Final defense/participation 25%



Poster Session

- Same submission/review procedure as oral
- Can be requested or can be assigned by chairs
- Sometimes considered less important than oral but not always
- Face-to-face and informal interaction
- Less restricted by time
- Suitable for topics with lots of technical details



Why Poster

- Good for first-time presenters/stage fright
- Good for complicated contents or multiple conclusions (a poster is two-dimensional)
- Good opportunities to meet and talk to people (future reviewers, employers, advisors, etc.)
- Good for other people to memorize you and your work (need good graphic design)
- Bring back and decorate your office



Style of Posters

- IMRAD: left-right or top-bottom
- Graphic: more figures than texts (500 ~ 1000 words)
- Bulleted/numbered list: avoid lengthy paragraphs
- Self-explanatory: in case you are not in front of your poster
- Highlights: like a short abstract
- Information about further contact or communication
- Less is more: avoid crowding
- Decent taste of coloring and design
- Font size: can be seen from 1 ~ 3 m away

Logo

Title of the Research Study PEOPLE WHO DID THE STUDY

Logo

UNIVERSITIES AND/OR HOSPITALS THEY ARE AFFILIATED WITH

Introduction

We hope you find this template useful! This one is set up to yield a 48x72" (4x6') horizontal poster when we print it at 200%.

We've put in the headings we usually see in these posters, you can copy and paste and change to your hearts content! We suggest you use keep black text against a light background so that it is easy to read. Backgroundcolor can be changed in format-background-drop down menu.

The boxes around the text will automatically fit the text you type, and if you click on the text, you can use the little handles that appear to stretch or squeeze the text boxes to whatever size you want. If you need just a little more room for your type, go to format-line spacing and reduce it to 90 or even 85%.

The dotted lines through the center of the piece will not print, they are for alignment. You can move them around by clicking and holding them, and a little box will tell you where they are on the page. Use them to get your pictures or text boxes aligned together.

How to bring things in from Excel® and Word®

Excel- select the chart, hit edit-copy, and then edit-paste into PowerPoint®. The chart can then be stretched to fit as required. If you need to edit parts of the chart, it can be ungrouped. Watch out for scientific symbols used in imported charts, which PowerPoint will not recognize as a used font and may print improperly if we don't have the font installed on our system. It is best to use the Symbol font for scientific characters.

Word- select the text to be brought into PowerPoint, hit edit-copy, then edit-paste the text into a new or existing text block. This text is editable. You can change the size, color, etc. in format-text. We suggest you not put shadows on smaller text. Stick with Arial and Times New Roman fonts so your collaborators will have them.

Scans

We need images to be 72 to 100 dpi in their final size, or use a rule of thumb of 2 to 4 megabytes of uncompressed tif file per square foot of image. For instance, a 3x5 photo that will be 6x10 in size on the final poster should be scanned at 200 dpi.

We prefer that you import tif or jpg images into PowerPoint. Generally, if you double click on an image to open it in Microsoft Photo Editor, and it tells you the image is too large, then it is too large for PowerPoint to handle too. We find that images 1200x1600 pixels or smaller work very well. Very large images may show on your screen but PowerPoint cannot print them.

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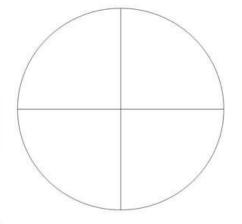
Methods

Figure #1

CHART or PICTURE

Results

Figure #2



Conclusions

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Bibliography

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Inversion of E-field Time Domain EM Data

Dikun Yang, Douglas Oldenburg

Geophysical Inversion Facility - Department of Earth and Ocean Sciences - University of British Columbia

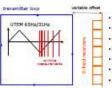


Introduction

information about the electrical conductivity of the earth can be coded in the magnetic or electric fields arising from a geophysical survey. Typically only the magnetic field, or its time derivative, is interpreted when using inductive sources. Here we investigate the potential for using electric field (E-field) data. We illustrate the time domain E-field method by using the "inductive Source Resistivity (ISR)" method, a ground EM survey proposed by Lamontagne Geophysics Ltd.

in this work we explain some basic aspects of the ISR method. including the sensitivity analysis and 3D synthetic forward modeling, and invertigate from a synthetic evangule. We also invertifield data from Shea Creek, a uranium deposit in Saskatchewan.

Configuration of ISR



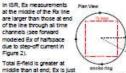
- Transmitter, non-grounded loop
- Receiver dipole electrodes
- · Dipole spacing: 25 or 50m
- · Measurement Ex (inline) · Waveform: UTEM trianquiar
- * Base frequency: 65 or 31Hz
- Time channel: 20 (UTEM)

Figure 1. Basic layout of ISR

Responses of ISR

Time varying magnetic fields from the transmitter induce secondary currents in the ground. These diffuse outwards from the transmitter and are often thought of as "smoke rings". Electric fields are generated by edity currents in a conductor and also by galvanic currents which give rise to electric charges at an interface of conductivity contrast.

Horizontal Distribution of E-field

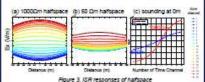


one component of total E-field off the middle sounding.

Figure 2. E-field along a survey line

ISR Responses of Halfspace

- Ex changes sign as the current in transmitter loop goes from negative to positive during and after the last 1/4 period
- * A conductive ground results in a smaller dynamic range of Ex (see Figure 3c), which is an important indicator of conductor in ISR.



ISR Responses of Conductive and Resistive Prisms

The forward modeled responses for a conductive and resistive prism are shown in Flaure 4.

- Large-scale features: caused by the halfspace background conductivity.
- Local-scale features: dynamic range of Existrinks or inflates at the place where the conductor or resistor is found.

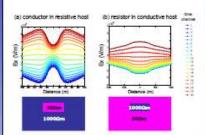


Figure 4. ISR responses of conductor and resistor

Sensitivity of ISR

Sensitive Region of ISR Survey

An inversion-based method to find the 3D region contributing to the Ex measurements (see Isosurface in Figure 6)

- (1) Compute synthetic data. The conductivity model is a 1000m halfspace. The survey layout and numerical modeling mesh are shown in
- (2) invertible data with a starting model and reference model of 1000Ωm. Cells that have conductivities different from the reference. model are considered to be responsible for the observed data.

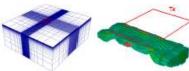


Figure 6. Forward modeling of

Figure 6. Recovered sensitive cells



- · The sensitive region is primarily between Tx loop and Rx line. The bottom of this region is about
- 400~500m at depth. The blue colored cells are close to reference model, so they are

Figure 7. Cross section of sensitive region

relatively insensitive (Figure 7).

Detectability of Deep Weak Conductor

Because of small eddy currents, a deep weak conductor may not be sensed well by magnetic field data. However, E-field data might be relatively strong if enough charges are built up on conductivity contrast. A forward modeling test quantitatively shows a better sensitivity of Ex. than dBz/dt to detect such a target.

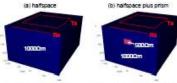
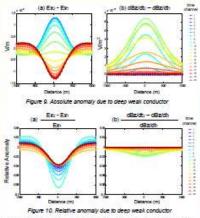


Figure 8. Forward modeling of Ex and dBz/dt for halfspace and prism

- * Forward model Exi and dBz/db for 10000m halfspace (Figure 8a); Ex and dBz/ct soundings are coincident
- Forward model Ex: and dBzidt; for a model of 1000Ωm halfspace plus. 500Ωm conductor below -400m (Figure 8b).

The absolute and relative anomalies caused by the conductive prism are shown in Figure 9 and 10 respectively.



- An object can be detected if the absolute and relative anomalies are sufficiently large. This depends upon the instrument and ambient noise level.
- The Ex data show at least a 4% anomaly for all time channels for deep prism. The relative anomaly of dBzldt may be easily disturbed by 1%~2% noise (Figure 10).
- E-field TEM may be especially helpful for the exploration of poorly or intermediately conductive targets or in cases where the magnetic field based method does not work well due to weak signal or magnetic noise.

3D Inversion of Synthetic Model

The Inversion algorithm is that outlined by Haber, Oldenburg, and Bhekhtman, 2007. A test inversion of a synthetic model was carried out to evaluate the code's capability of inverting E-field data. The model, a 1000Ωm background and a 50Ωm prism, simulates an alteration zone buried in sandstone background (Figure 11). A ISR data set for one loop was forward modeled (Figure 12).

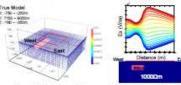


Figure 11. Synthetic model

Figure 12. Synthetic ISR data

A 10000m halfspace was used as an inital and reference model. Data misfit converged to target misfit (chifact = 1) after 14 iterations (Figure 13). The final model perfectly reproduced the observed data (Figure 14). Comparing the achieved miefit = 61 target miefit = 620 recovered model to the true model (Figure 15 and 16), it is obvious that the inversion correctly delineated part of the prism under or near the Rx line.

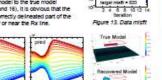


Figure 15. 3D isosurface

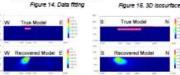


Figure 16. Cross sections of final inversion model

3D Inversion of ISR Field Data

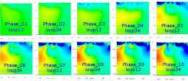
An ISR dataset was acquired with the configuration shown in Figure 17 and Table 1 The goal was to search for uranium at the Shea Creek deposit, Saskatchewan.

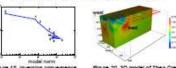
Table 1. Payameters of Shea Creek ISB Loop 1 7200N 400m 65Hz 25m



Floure 17, Shea Creek ISR surve

Two different waveforms were used. We soilt the whole dataset into two parts, loop12 and loop34, and inverted them alternately with an iterative Tikhonov approach. That is, invert loop 12, then loop 34, then loop 12 etc. The inversion model from the previous phase was used as a reference and initial model for the next inversion. The tradeoff parameter was continually decreased. The procedure continued until the total misfit. could not be reduced. (see Figure 18 for evolution of inversion model; see Floure 19 for convergence of data misfit)





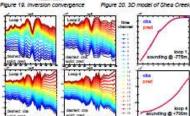


Figure 21. Shea Creek ISR data fitting

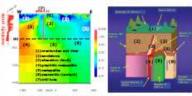


Figure 22. Cross section at 7200N and geologic interpretation

Figure 28 shows the 3D inversion model that acceptably fits the observed ISR data (Figure 21). A cross section of the conductivity model at 7200N is geologically interpreted with in accordance with the exploration model built up by the previous works (Figure 22)

Conclusions

- · E-field data from inductive sources (ISR data) can be 3D inverted.
- Fleid data inversion produces features that have a geologic interpretation. More data could improve the resolution and better constrain 3D inversion.

Haber, E., Oldenburg, D. W., Shekhtman, R., 2007, Inversion of time domain three-dimensional electromagnetic data. Geophys. J. Int., 171.

Acknowledgements



Presented at



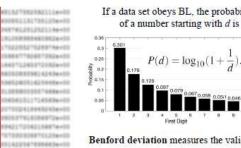
THE UNIVERSITY OF BRITISH COLUMBIA DIKUN YANG

yangdikun@gmail.com

Characterization of noise in airborne transient electromagnetic data using Benford's law

- Benford's law: how often 1 to 9 appear as the first digit of numbers in a data set.
- Actual geophysical data obey Benford's law, while a random noise does not.
- Deviation from the ideal Benford's frequency can indicate the level of random noise.
- A trivial and fast approach to probe a large data set and estimate the noise.

Benford's law (BL): Only the first digits matter (Benford, 1938).



If a data set obeys BL, the probability

- · Contains many numbers
- Spans many orders of magnitude
- · In log-uniform distribution
- · Hydrological data (Nigrini and Miller, 2007)
- Earthquake data (Sambridge et al., 2010).

Benford deviation measures the validity of BL for a data set

$$\delta = \sqrt{\sum_{d=1}^{9} \left[\frac{F(d) - P(d)}{P(d)} \right]^2}$$

P(d): the ideal Benford frequency

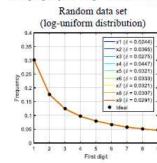
F(d): the evaluated Benford frequency

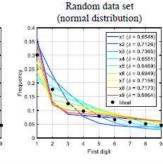
Scale invariance

457619457625275e+05

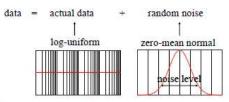
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F(d) does not change if the data are multiplied by an arbitrary constant This property offers great convenience in raw data analysis.





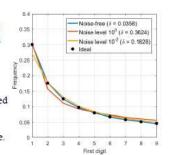
Test on synthetic data sets



Three synthetic data sets:

- · Noise-free: actual data are random numbers in loguniform distribution between 10-2 and 102.
- · Noise level 100: the noise-free data plus a noise in a normal distribution of unity standard deviation.
- · Noise level 10-2: the noise-free data plus a noise in a normal distribution of 10-2 standard deviation.

At a higher noise level, more actual data are swamped by the noise, so more noise are included in the calculation of δ . δ can be considered as a relative measure of the noise's dominance.

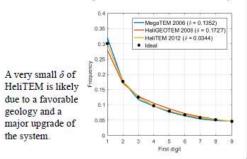


Test on real data sets

Three airborne transient EM (ATEM) data sets acquired by Fugro (now CGG) with similar electronics:

- · MegaTEM (2006): a fixed-wing system, base frequency 90 Hz, transmitter moment 1.49 million Am2, number of data 468877, at a uranium site.
- HeliGEOTEM (2008): a helicopter system, base frequency 30 Hz, transmitter moment 0.8 million Am2, number of data 824720, at a porphyry site.
- HeliTEM (2012): a helicopter system, base frequency 30 Hz, transmitter moment 1.9 million Am2, number of data 781303, at a volcanogenic massive sulphide.

All data sets reasonably obey BL with small δ 's. The actual data are dominant over the noise. A more controlled experiment is desired in future study.



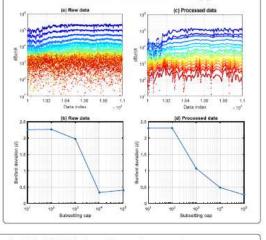
Estimation of absolute noise level

Infer the absolute noise level using the information from the exponents and a dynamic subsetting method:

- · Trials with an increasing subsetting cap.
- Only the numbers below the cap are analyzed for δ
- The δ curve as a function of the cap is diagnostic.

Two version of the MegaTEM (2006) data sets:

- Raw in high noise (a): sharp reduction of δ as the cap excesses the noise level (b).
- Processed in low noise (c): gradual reduction of δ as more data are included in the calculation (d).



Conclusions

- · A "random noise" in "actual data" of certain types can be distinguished by BL using only the first digits.
- · The simplicity of BL and its scale invariance make it promising in fast analysis of raw data in large amount.
- · BL is effective in estimating the relative noise level in airborne TEM data. With additional information from the exponents, the absolute noise level can be inferred.

Links

SEG Expanded Abstract DOI:10.1190/segam2016-13972000.1

geology and a

the system.

Benford Online Bibliography

An online bibliographic database on the theory and applications of BL http://www.benfordonline.net



- · Benford, F., 1938. The law of anomalous numbers: Proceedings of the American Philosophical Society, 551-572.
- · Nigrini, M. J., and S. J. Miller, 2007, Benford's law applied to hydrology data results and relevance to other geophysical data: Mathematical Geology, 39, 469-490.
- Sambridge, M., H. Tkalčić, and A. Jackson, 2010, Benford's law in the natural sciences: Geophysical Research Letters, 37.

The real data sets were courtesies of Fugro (now CGG), Cameco and Terrane Metals (now Thompson Creek Metals).

Nabighian's Smoke Rings in 3D Inversion

Dikun Yang Southern University of Science and Technology, Shenzhen, China Douglas W. Oldenburg University of British Columbia, Vancouver, Canada



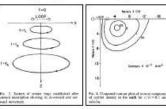
a place of mind

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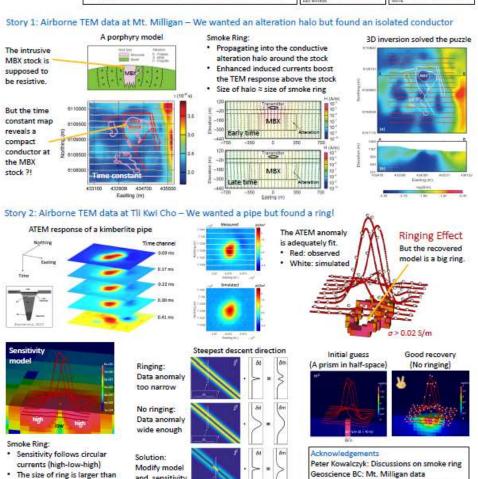
The concept of "smoke ring", developed by Nabighian with a uniform half-space in the 70's, is such a profound and intuitive model that we still cannot get away with in today's 3D inversion. This poster presents two research stories of our own to show the influence of Nabighian's early work on modern geophysical technology.

SMOKE RING A puff of smoke that has been "blown by the transmitter loop*





Peregrine Diamond Ltd.: Tli Kwi Cho data



and sensitivity

the width of anomalous data



Rheo-Physics of Shear Thickening Fluids during Large Amplitude Oscillatory Shear (LAOS)



A. Kate Gurnon¹, John W. Gillespie Jr.² and Norman J. Wagner¹

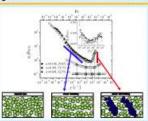
1 University of Delaware Chemical Engineering Department and ²Center for Composite Materials

Motivation

Shear Thickening Fluids (STFs) are concentrated colloidal suspensions that exhibit increases in viscosity under high shear rates of deformation. Recent research has moved toward exploiting the exceptional damping properties of STFs for use in applications such as personal protective armor. This application motivates a more fundamental understanding of the nonlinear rheological response of STFs.

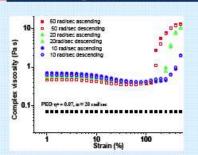
Our objectives are two fold:

- To present measurements of shear thickening fluids (STFs) under large amplitude oscillatory shear (LAOS) conditions.
- II. To develop a way to use LAOS measurements to determine the nonlinear parameter of a constitutive equation that will be used to model the shear thinning regime of a STF



Model STF system (500nm diameter silica particles in PEG-200) during steady shear deformation highlighting the shear thinning and shear thickening regimes from D.P. Kalman and Wagner, N.J. Rheologica Acta, 2009. 48(8), 897-908.

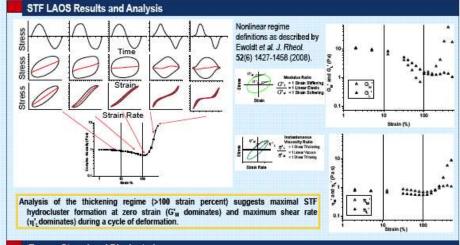
Part I: STF During LAOS Deformation



Suspension:

47 volume percent silica particles (500nm diameter) in PEG-200 Test Conditions:

T = 20 C



Energy Stored and Dissipated

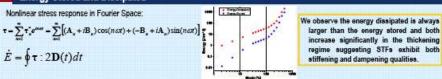
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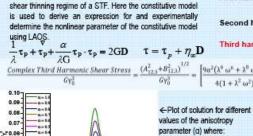
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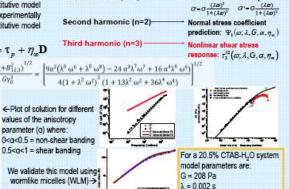
0.01



Part II: Extracting a Nonlinear Constitutive Equation Parameter using LAOS



The Giesekus constitutive equation will be used to model the



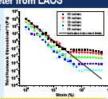
 $\eta_{m} = 0.006 \, \text{Pa s}$

Linear shear stress response:

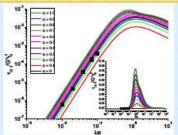
First harmonic (n=1)

Anisotropy Parameter from LAOS

LAOS measures the third harmonic stress contribution at five different frequencies.



Using the third harmonic stress contributions we solve for the anisotropy parameter (α). Plotting these (black points) we see the solution from the third harmonic corresponds with the α=0.4 analytical solution.



Conclusions

We conclude the shear stress response of STFs under LAOS has a highly nonlinear response and can be understood within the context of the analysis used here. The results suggest maximal STF hydrocluster formation occurs at zero strain and maximum shear rate.

We have evaluated the Giesekus model for nonlinear shear responses and derived an expression to find the anisotropy parameter from a LAOS measurement.

Future Work

Newark, DE 19716

- Image STF dynamic responses during LAOS using time resolved Small Angle Neutron Scattering (t-SANS) under oscillatory shear.
- Implementation of a multi-mode version of the Giesekus constitutive model for use in modeling the shear thinning behavior in a STF

Research Funding and Contact Information

Special thanks to the Wagner Research Group, Dr. Eric Wetzel and Dr. Randy Ewoldt for helpful discussions as well as the Center for Composite Materials (CCM) at Univ. of Delaware and the Army Research Laboratory (ARL) for funding and support.

A. Kate Gurnon – ekgumon@udel.edu Univ. of Delaware Chemical Engineering Department www.che.udel.edu 150 Azademy Street



Assets Reconsidered: Alternative Assets and Fathers' Well-being



Kimberly J. Turner University of Wisconsin-Madison



Background/Conceptual Framework

- Accumulated assets function much like a storehouse supporting incoming flows of resources.
- With limited reserves, one is in a precarious position, wholly dependent on the current in-flow of resources – a position all too familiar to low-income fathers.
- Possessing few traditional financial assets (i.e., savings, value of an owned home, stocks and bonds), disadvantaged individuals invoke survival strategies, often relying on personal safety nets (Edin & Lein 1997; Edin & Lein 1997b, Anderson 1999).
- Survival strategies reflect various forms of atternative assets – resources that represent ranging dimensions of human, cultural, social, organizational, and potectal capital – that help individuals meet their basic needs (Sherraden 1991; Sharpro & Wolf 2001).
- Acquisition and maintenance of alternative assets require investments of time and energy (Dominguez & Watkins 2003; Nelson 2000).

Research Question

What is the relationship between fathers' social supportlengagement and fathers' physical, mental, and economic well-being?

Data

- Fragile Families and Child Well-being Study (Pls: McLanahan & Garfinkel)
- Longitudinal study of urban birth cohort of 4,897 births between 1998 and 2000
- . Twenty U.S. cities of population 200k+
- Over-sample of nonmental births (3,710) with comparison group of munital births (1,187)
- Follow-up interviews occurred approximately 1, 3 and 5 years after child's birth

Analytic Sample and Methods

Analytic Sample

- . Both marital and nonmarital births.
- . Interviewed fathers only (about 4/5 of births).
- Interview did not occur in jail
- Child lived with biological mother
- Separate analyses of resident and non-resident fathers: 1Yr – 85% resident: 5Yr – 72% resident
- Number of cases = 3,775 unique fathers → 8,845 person – year observations (5,960 Resident, 2,885 Non-Resident)

Methods

- Examine fathers' well-being and social support(engagement) at years 1, 3 and 5
- Using pooled data across years with time-varying residence status
- . Estimate separate models by residence status
- Random effects models (both between- and withinfather differences)
- · Fixed effects models (only within-father differences)

Fathers' Social Support and Engagement

Perceived Instrumental Support (Range = 0-6)

- Can count on someone to: (a) loan \$200, (b) loan \$1000, (c) provide a place to stay, (d) provide emergency childoare, (e) co-sign a \$1000 loan (f) and co-sign a \$5000 loan.
- Summed Scale (a > .70 for resident fathers: a > .70 for non-resident fathers)

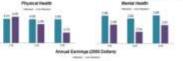


Received Financial Support from family and friends (in 1000s)

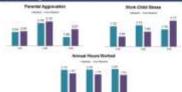
 Inflation-adjusted amount of financial support received from family and friends.



Fathers' Well-being







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Participale in a Protect

Regulated to Vote

ALC:

10.4 10.1

T4.0 01.0

Key Baseline Demographics and Control Variables

Residence Status at 1 Year	Resident	Hon- Payadess	
Rack/ethnicity			
White not Hispanic	32.5	9.3	
Black non-rispans	27.78	64.6	
Hispanic.	24.1	20.1	
Education			
Less than HS	28.9	21.2	
HS degree	12.1	39.7	
Some college:	22.8	17.6	
College degree	15.7	2.1	
Married to child's mother	36.8	- 3.1	

Control Variables					
Time Constant	Tone-Varying				
Age at child's birth	Pathets' involvement				
Foreign barn	Relationship with brings all mother				
Lived with parents at 15	Fathers education				
Degressive symptoms (CEB-CI)	Crandworther suresiding with shill				
Self-reported health	States hours worked per week.				
Relgious service attendance	Relationarity status				
Positive fathering attitudes	- Married				
Has previous shill w' other partner	-Deling				
Number of children will bio mother	- New Partier				

Results

	Social Support				Social Engagement					
	1757250	pport FE	Receive	nd Support		s Service idance FE	Comm Org RE	Part. Protest RE	Reg. Vote RE	Vote Prez RE
Resident Fathers			10001		10000	200	- 100	-		
Physical Health Mental Health Parental Stress Work-Child Stress	.051** .021** .027** .051**	.038** .017** 003 038**	- 003 - 003* - 000 - 005	001 .000 003 .002	.011 .016** -016* -003	.004 007 018* .001	030 009 - 062* - 030	- 020 - 584* - 041 - 559	023 .012 069* 076*	034 022 026 -047
Annual hours worked (in) Annual earnings (in)	047**	029**	-007*	-004 -001	014	.004	021 017	.005 -020	087	044
Non-Resident Fathers	-					-				
Physical Health Mental Health Parental Stress Work-Child Stress	075** 027** - 029** - 041**	.036* .019* 031* 039*	-005 -019** -003 -010	-004 -022** -012 -025*	-039 -050. -058	.057* .012 -014 -050*	.009 .023 -058 .001	-296 -096 -029 -025	058 .079* 037 033	-008 -118** -026 -051
Annual hours worked (in) Annual earnings (in)	054** 082**	020	- 024*	.019 018	033	000	.089* .025	- 001	202*	0961

NAME +91-10 YES 08 TWO DE

Summary of Findings

- Resident fathers:
- Consistent positive (but modest) relationship between perceived social support and fathers' physical, mental and economic well-being.
- · Associated with lower levels of stress
- A one-unit increase in perceived support is associated with a 3% increase in the average annual hours worked and earnings for resident fathers.
- Negative relationship between received financial support and fathers' physical, mental and economic well-being in random effects models.
- Attending religious services, participating in a community organization and being registered to vote are associated with lower levels of parental stress.
- . Non-resident fathers:
- Increasing perceived support is linked to better health and mental health outcomes (lower levels of stress).
- Receiving financial support is associated with declines in mental health and increased work-child stress.
- Participating in a community organization, being registered to vote and voting in a presidential election are all positively related to labor force attachment.
- Those who registered to vote and voted in a presidential election have higher annual earnings and better mental health on average.
- Overall, the relationship between fathers' social support and engagement on fathers' well being is relatively consistent across residential contexts.

Next Steps / Limitations

Next Steps

- Examine the relationship between other types of alternative assets and fathers' well-being.
- Construct an aggregate measure of alternative assets

Limitations

- Interviewed fathers cannot be used to generalize to all fathers ('worst off fathers are under-represented)
- Cannot disentangle directionality in the associations.
- · Unobserved heterogeneity

Acknowledgements

The author thanks the Eurisice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) for funding this research through a pre-doctoral traineeship (T32HD07014) and through core funding to the Center for Demography and Ecology (R24HD047873). Funding for the Fragile Families and Child Weitbeing Study was also provided by NICHD through grants R01HD36916, R01HD39135, and R01HD40421, as well as a consortium of private foundations.



Transdisziplinäres Lernen in Wikis

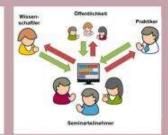
Oliver Tacke

Technische Universität Braunschweig | Institut für Organisation und Führung o.tacke@tu-braunschweig.de | Telefon +49 (0) 531 391-3642

Überblick

Während häufig in voneinander gebrennten Umgebungen gelemt wird (Schulen, Universitäten, Betrieben, usw.), bedarf es in einer modernen Geseltschaft eines übergreitenden Austauschs als Quelle neuen Wissens – die Vernetzung untereinander gewinnt an Bedeutung. Hierzu wird insbesondere im Hochschulbereich dem transdiszighinärem Lernen zwischen Studierenden, Wissenschaftlern und Praktikern ein hohes Potenzial zugeschrieben. Gleichsam besteht durch eine Öffnung nach außen die Möglichkeit, weilser Teile der Bevölkerung an den Lemprozessen teilhaben zu lassen, nicht nur passiv als Empflänger sondem auch aktiv als Beitragende. Wegen der Inhärenten Partizipationsmöglichkeiten in sozialen Medlen liegt deren Einsatz nahe.

Im Sommersemester 2010 wurde im Fach Betriebswirtschaftslehre der Frage nachgegangen, ob sich bereits mit vergleichzweise geringem Aufwand transdazipfinäres Lemen durch Seminare in öffentlichen Wikis unterstützen sisset Zusätzich wurde ein Meinungsbild der Studierenden eingehört.



Website des Kurses in der Wikinersity | Comparison | Com

http://de.wikiversity.org/wik/Kurs.Teams_SoSe10

Vorgehen

Die Studierenden sollten gruppermeisie innerhalb eines öffentlichen Wikkis Seminaratheiten anfartigen. Um die Währscheinlichkeit zu erhöhen, dass Außenstehende von sich aus auf das Seminar aufmerksam werden, wurde für dem Kurs ein möglichst prominentes Weit gesucht. Er wurde schließlich in der "Wikiversity" angelegt und der bewerben: http://de.wikiversity.org/wikikfurs; Teams, SoSe10. Die Wikiversity ist ein Schwesterprojekt der bekannten Wikipedia und stellt ein öffentliches Wiki zum gemeinschaftlichen Lemen und Lehren dar.

Die Studierenden wurden ermuntert, für ihr jeweitiges Theme Spezialisten zur Mitarbeit zu bewegen. Zusätzlich wurde der Kurs in verschiedenen Fachgruppen der sozialen Plattform XING vorgestellt und um Beteiligung gebeten. Ergänzend machte der Dozent mehrtach über sein Konto beim Microblogging-Dienst Twitter auf das Seminar aufmerksam und kontaktierte einen ihm bekannten Experien direkt.

Das Meinungsbild der Studierenden wurde nach Abschluss des Seminars per Fragebogen festgehalten und mittels einer Likert-Skala erfasst.

Ergebnisse und Diskussion

Ledigich ein Interessent stieß spontan auf den Kurs und außerte den Wunsch, daran setbel teitzunehmen. Mangelis der Möglichkeit, dafür einen formeilen Nachweis zu erhalten, sagte er jedoch ab. Weitzer Expertenbetreiligung von außen erfolgte in Form von Liberaturhinweisen und Interviews. Die getitigten Anstrengungen (möglichst bekannte Plattform, gezielte Werbung in Fachtoren und Stresung über Twitter) genotigen nicht, um übermäßig große Bebisigung Außerstehnder zu erzeugen.

Die Mehrheit der Studierenden sieht in Wikis allgemein ein praktisches Werkzeug, um darin gemeinsam Arbeiten zu erstellen. Auch seisen sie es grundsatzlich positiv, dass Außenstehende sich mit ihren kleien beteitigen können – die wenigsten haben allerdings wertvolle Beiträge erhalten. Folglich sehen sie es nur begrenzt als häffelich an, dass weltweit jeder den Stand der Arbeit einsehen kann. Einige außerten diesbezüglich ger ehwes "Unwonissen", ersgesamt stehen die Lemenden den diffentlichen Serninaren aber poeitity gegenöber. Elwaige Bedenken sollten zu Beginn diskullert werden.



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Records of Migration and Ebb-Delta Breaching at Historic and Ancient Tidal Inlets along a River-Fed Paraglacial Barrier Island



Department of Physical Sciences, Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, VA, USA: "Graduate School of Education, Inversity of Massachusetts, Lowell, Lowell, MA, USA: "Department of Earth and Environment, Boston University, Boston, MA, USA, "ESS Group, Wolfham, MA, USA

1. Motivation: Tidal Inlets in the Stratigraphic Record

Tidal inlets in the countel system:

- · Classics maintained by tidal flow which hydrodically connect backburser carrionments with the courted occus
- Among the most dynamic and epheneral features of

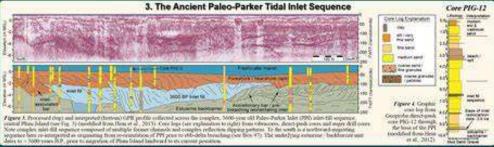
Tidal inless in the stratigraphic record:

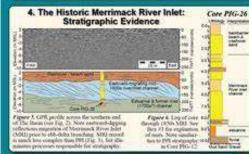
- Islet dill sequences comprise up to 50% of human Inhosomes in wave-dominated settings (Moslow & Tyr. 1985); commonly uniged with ground-ponetrating radiu
- · Also identified slong shallow commount shelves & in

Scientific Problem:

Linking rates fell sequences to responsible presionaldepositional processes is largely informati, based on observational studies at systems without direct printionships to anorm adet-fills

2. Study Area: Plum Island, Gulf of Maine, USA Figury I. Location of study ide (Phus feland) strong the setuplaced obegins sent - 2 Golf of Moone Mass. USA sertory E. Hess) Coastal Setting bland within the longest in the Gulf of Maine Morel-mores; tide dominated trungs: 2.7 mg · Northern end: Merrimaci Keep mouth · full-sepond by strong mortheast winter storms dominant southerly long: Figure 2, A) Study and everying II) Soption Plan Island, C) Cont. shore sediment transport. Plum bland and Parker Rever





Plum Island by

sugrating MRI * Inlet becomes

debta to create

more dience

(E-W) notice

* Remnant cbb

dicita magnitus

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5. The Historic Merrimack River Inlet: Historic Evidence 100 Figure 7. Historic pusps (top) and sketches of shorelines changes (between at the MSE over a Multiple phoses of SW selet magnition & crosses of NE Plant Irdand shorthing on 156-year period. Data someon: Minchell. fork of island (Old New Point)

6. Traditional Model: **Ebb-Delta Breaching**

treng haven . From of NE

New Popul Figure 8. Crosspoted model of elds-delta Insudang at the MIG. Michigal from Fit/Gender (1995).

7. Ancient & Historic Inlets: Insights into the Stratigraphic Record

- Updated model of MRS evolution (Fig. 9): SWA bedward-response MRI reported seasoned in response to deflection by a proteading shoreline formed from the onshore welding of downdrift ebb-dritts ordenent
- hodesobootly sections and Eth-delta breaching more complex breaches ebbthan implainted model
 - Re-evaluation peoded of details & complexities observed in stratigraphic (GPR, sediment cores) record? (cromple see PPI sequence Fig. 1)
 - Comparison of battoric & sectors teles urquences underscoves need to carefully document complex unlet processes recorded in infer fift sequences in close responsive with those preserved by stoden analogs.

Figure 8. Updated model of SIEE 606 Acts breaching based on Better 4005

ut (1836): Anderson (1850): US Court Survey

- processed D.M., 1997. Origin and needley of held subtle to follow theoretic. Str. Andrew, T.H., and Garrier G.N., subtle Presidence of the Original Field States. Westernamen of the Original Field States. Mechanisms DC: ACC. Counted and Enhances Shallow, 94, pp. 1–61. Ris. C.F. Ferdensk D.M. Carrelane L.A. Mass, B.D. Bastlevik, W.A. and Onste, A.M. 2007. Refishing the reside of Technic Industry and producted cond in the Orld of Mass. Marce (enloys, W.S.E., 48-5).
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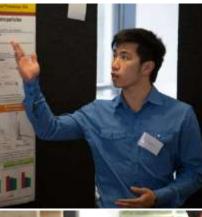
9. Acknowledgements

eard OCE 037500. We think M. Morris of the Store egy-public contract, organization for assistance with

Presenting a Poster

- Designated time slot
 - 15-min informal talk in front of the poster
 - One-day or half-day show time
- Dress properly (more important in poster presentations)
- Printing: glossy paper, cloth, polymer
- Greet people and initiate conversations
- Control your pace and adapt to different audience
- Confidence, eye contact, do not be shy
- Extras: handouts, printouts, demos, other presenting aids
- Still need practice: a long and a short version









A good poster presentation is like a good bowl of noodles:

- Visually pleasing
- Variety
- Flexibility
- Complexity

