Max Klein: Statement of Purpose

University of Minnesota Computer Science Department

Research agenda

Gender, race, sexuality, nationality, social-class, native-language, height and weight. Can we make an exhaustive list of social biases? I believe we already have, but haven't realized it yet.

Accounting for social biases is a main barrier to entry and expansion in sociotechnical systems[1]. I'm tantalized by the idea that we could automatically detect biases we haven't yet identified – that we could uncover Rumsfeldian unknown unknowns. I propose a research agenda to classify the already-known social biases by as they appear in the collaborative technologies, and then search for unidentified biases using those classifications. As an explanatory example, create a statistical model of how the known skewed distributions of gender, race, and nationality exist in Wikidata (the free knowledge base that feeds Wikipedia), and then inspect *all* the property distributions to match the biased patterns. The project grows more complex by allowing property-pairs (e.g. gender by race), different sociotechnical communities (e.g. Freebase, Git-hub), and different models of bias (e.g. editorship-measures). If successful we will find overlooked stigmas of people using technology that haven't been identified yet in any other way.

Preparations

This research agenda is the direct consequence of the experience I have gathered in my academic, work, and personal portfolio. They are the three strands which constitute the braid of my readiness: technical head-down-ness, Open Culture social awareness, and self-driven curiosity.

In Spring of 2015, I will present my research on "The Virtuous Circle of Wikipedia"[2] at Computer-Supported Collaborative Work conference 2015. The paper provides a new definition and measure for the "collaborativeness" of a socio-technical community – the degree to which being a good user is correlated with editing alongside other good users. In this case I studied the non-profit Wikipedia, using economic insight and a variant of the Google PageRank algorithm. We found that the editors in the category "US Military History" was the most collaborative, but the editors of category "Sexual Acts" only seemed to edit-war. This will guide my proposed research agenda because it will help answer the criticism of whether found biases reflect society at large, or only the biases of the editing community. It will answer that question by determining whether found biases are correlated to collaborativeness.

Moreover my "Virtuous Circle" research has prepared me by stretching my technical strengths and weaknesses. The project was a collaboration with UC Berkeley School of Information PhD Thomas Maillart, who pushed me to grasp new mathematical models and higher methodological rigor. My BA in mathematics was useful in learning the required network science quickly, shown in that an early stage of the research was presented as a poster to the NetSci 2014 conference[3]. Likewise I was also pushed to come to speed with a base computational social science literature. An example of exceeding this goal is evident in the "Method of Reflections" technique which we borrowed and utilized in the paper – after which I created the first open-source implementation of the method[4].

To open source that algorithm was instinctual because I am a part of the academic-hacker Wiki Research community. It was there that my blog posts on the Gender Biases in different Wikipedia languages was picked up by Hanyang University Sociology Professor Piotr Konieczny. We came to work together on creating "Wikipedia Gender Inequality Index" (WIGI[5]), an upcoming Open Dataset of extracted information from Biography articles across all Wikipedia Languages. My contribution was to put together the technical

[1] Halfaker, Geiger, Morgan, and Reidl. The Rise and Decline of an Open Collaboration System (2013)

[2] Klein and Maillart The Virtuous Circle of Wikipedia (2014)

[3] Klein and Maillart Poster - The Virtuous Circle of Wikipedia (2014)

[4] Klein Method of Reflections Explained and Exampled (2014)

[5] Klein and Konieczny WIGI: Wikipedia Gender Inequality Index

infrastructure to re-index, analyze and display the huge dataset each month. I also came to sharpen my statistical testing from Piotr as we first analyzed the predictive power of the data by Date and Place of Birth, Ethnicity, Citizenship, and Language. Currently in the submission process, WIGI is an existing prototype and first step in the stream of the research agenda put forth.

My preparedness is anchored by a final personal factor: the philosophy to steer my own course, navigating by natural curiosity. One telling fact about the above two projects is that I have not done them under the direction of an institution, either academic or industry. Both have come voluntarily without pay and on my free time. The last major directives I received were 3 years ago at the beginning of my stint as Research Assistant at OCLC Inc. where I was hired to improve Wikipedia-Library integration, which I accomplished by way of writing Wikipedia bots to add content from Library databases. After publishing about the process[6] and finally amassing over 2 million edits, I came to see what was driving me in the position. It was the Open Notebook Science - the source, data and analysis syncing publicly online as it evolves in front of me, thereby submitting my ideas to the full scrutiny of the internet hivemind. More and more my ideas spilled over the scope of the OCLC Research blog[7], and I started hosting them myself at *notconfusing.com*[8]. My natural inclinations to investigate on my own started receiving attention and energizing feedback – particularly on posts exploring the data of gender[9] and language[10] [11]. Although I didn't fully realize it then, this new networked, boss-free but still peer-reviewed world meant that I already started to pursue my PhD.

Faculty Interest

No blog is an island. As my research efforts intensify I have a growing need for guidance in methodological framing and focus. In a conversation with Brent Hecht – the faculty member with whom I'm interested in working with, I was aroused by the discussion of his research with WikiBrain around online effects geography and language (my review[12]) and overall the dedication to making social human-computer interaction statistics less difficult to compute. This ease in computation is particularly important when we consider the intensive methods employed by HaiYi Zhu. Her investigations into "shared leadership"[13] intrigue me from the machine learning perspective and also the interdisciplinary bridging of leadership theory. They harp on exactly the sort of social collaborativeness questions that I'm dancing around in my research – but that I need help in refining. Along with a veteran of that team, Loren Terveen, I would ask that they could help train me in defining and attacking the more poignant sociological questions that I do not quite know how to ask yet.

Earning my PhD from UMN, in the grand scheme, is a waypoint on the path towards becoming a professional researcher. The end product of my education is necessarily full time research, because the end goal of my education is knowing how we are effecting sociotechnical systems with outmoded social biases, which will forever be less than fully understood.

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6   Klein and Kyrios VIAFbot and the Integration of Library Data on Wikipedia (2013)
7   Klein HangingTogether.org Blog Posts (2012-14)
8   Klein Notconfusing.com Research Blog Posts (2012-14)
9   Klein Sex Ratios in Wikidata Part III (2014)
10   Klein Actionable Metrics for Uganda and Côte D'Ivoire (2014)
11   Klein The Most Unique Wikipedias According to Wikidata (2013)
12   Sen, Li and Hecht WikiBrain Democratizing Computation on Wikipedia (2014)
13   Zhu, Kraut, Kittur Effectiveness of Shared Leadership in Online Communities (2012)

maximilian klein

max@notconfusing.com
+17074787023
notconfusing.com

objective
publications

Computer Science Ph.D. Study
University of Minnesota

The Virtuous Circle of Wikipedia   03 / 2014
CSCW 2015 · Authors: Maximilian Klein, Thomas Maillart, John Chuang
https://github.com/notconfusing/wiki_econ_capability/blob/master/paper/cscw/cscw2015.pdf
Accepted as a paper at CSCW '15, and a poster at NetSci '14, we propose a measure of the "collaborativeness" of a group of socio-technical participants by calibrating correlations between rankings given by an extension of the Google PageRank algorithm and exogenous metrics. Results on the English Wikipedia categories are presented.

WIGI: Wikipedia Gender Inequality Index   11 / 2014
In Submission · Authors: Maximilian Klein, Piotr Konieczny
https://meta.wikimedia.org/wiki/Research:Wikipedia_Gender_Inequality_Index
WIGI is an academic index allowing comparative study of gender inequality through time , space, culture, and language editions. Based on the Wikidata.org dataset, we create a monthly-updated freely licensed dataset for use in academia, as well as performing observational analysis.

VIAFbot and the Integration of Library Data on Wikipedia
Code4Lib Journal · Authors: Maximilian Klein, Alex Kyrios   10 / 2013
http://journal.code4lib.org/articles/8964
A case study of a project that successfully added authority data to hundreds of thousands of articles on the English Wikipedia, and paved the way for doing so in all other Wikipedias.

experience

Wikiproject Open Access   02 / 2014 - Present
Developer and Researcher
https://github.com/wpoa
Funded by the Open Society Foundations, developed applications watching citations on Wikipedia and uploading the Open Access papers to Wikisource for deeplinking and usage tracking. Meanwhile, the program "recitationBot" outputs "altmetrics" of the number of pageviews a citation is receiving back to academic community.

OCLC Research   05 / 2012 - 03 / 2014
Research Assistant, Wikipedian in Residence
http://hangingtogether.org/?cat=51
Bridging the gap between library data and Wikipedia. Racked up over 2 million Wikipedia edits with custom-written bot to improve articles using Library data.

Untrikiwiki   05 / 2012 - Present
Principal
http://untrikiwiki.com/
Founder of Wiki tech company. Notably, as a grantee of Creative Commons extended MediaWiki to support the LRMI educational metadata standard.

education

University of California, Berkeley   2007 - 2011
A.B. , Pure Mathematics
Programming Language Profi

Sudo Room Hackerspace   2011 - Present
Founding Member and Treasurer
Leader and participant of community hacker-math education.

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OAKLAND, CA 94609-1434

E-Mail: isalix@gmail.com

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MAXIMILIAN AYAL KLEIN
5957 SHATTUCK AVENUE
OAKLAND, CA 94609-1434

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21196877        30273-126 U        KLEIN,MAXIMILIAN AYAL       L & S     *MATHEMATICS        *1

RESIDENT                LONDON,UNITED KINGDOM         09-10-88          ***-**-1210   MN   11-12-14

AUG  2009            REGULAR
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      - SECONDARY SCHOOL  -  DATE GRADUATED -                -UNIVERSITY REQUIREMENTS-
      MARIA CARRILLO HIGH SCHOO JUNE 2005                    08-09 UC ENTRY LVL WRITING-REQT SATISFIED
                                                             08-09 AMERICAN HISTORY    -REQT SATISFIED
                                                             08-09 AMERICAN INSTITUTION-REQT SATISFIED

                                                              - BERKELEY CAMPUS REQUIREMENTS -
                                                             12-09 AMERICAN CULTURES   -REQT SATISFIED


                                                                    - DEGREES -
                                                             540  BACHELOR OF ARTS AUGUST 12, 2011
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      811  SANTA ROSA JUNIOR CO, 7 TRM FA05-SP09             828  CREDIT ALLOWED FOR WORK AT
      812  *UN  68.0                                         829  UC LS ANGLS EX, 1 TRM TO 08-11
                         TOTAL:      68.0*                   830  *UN  2.6
                                                                            TOTAL:     2.6*
           FALL  SEMESTER  2009
      813  VICTORIAN PERIOD   ENGLISH  122  4.0 B+  13.2         - MEMORANDA -
      814  AMERICAN LANGUAGES LINGUIS  55AC 4.0 A   16.0     ** CONSULT L&S TO VERIFY COMPLETION OF COLLEGE
      815  LINEAR ALGEBRA     MATH     110  4.0 B+  13.2     REQUIREMENTS **
      816  DIRECTED GROUP STDY MATH    198  1.0 P       PF  950  01-19-10 FIELD OF STUDY CHANGED FROM
                                       12.0*  42.4*         951   L & S UNDECLARED.
           12.0*ATTM    12.0*PSSD     42.4*GP  18.4BAL

           SPRING  SEMESTER  2010
      817  AMERICAN NOVEL     ENGLISH  132  4.0 B+  13.2
      818  DIRECTED GROUP STDY INFO    198  2.0 P       PF
      819  ABSTRACT ALGEBRA   MATH     113  4.0 A   16.0
      820  INCOMPLETE/UNDECID MATH     136  4.0 B   12.0
                                       12.0*  41.2*          TOTAL PASS/NOT PASS  ATTM      7.0 PASSED      7.0
           24.0*ATTM    24.0*PSSD     83.6*GP  35.6BAL
                                                            OTHER TRANSFER CREDIT          70.6
           FALL  SEMESTER  2010
      821  STR INTERP CMP PRGS COMPSCI 61A  4.0 B-  10.8     SEMESTER CREDITS COMPLETED     121.6  UC GPA  3.173
      822  SUPERV INDEP STUDY INFO     199  2.0 P       PF
      823  INTRO TO ANALYSIS  MATH     104  4.0 A-  14.8     * * * * * * * * * * * * * * * * * * * * * * * *
      824  ELEM ALG GEOM      MATH     143  4.0 C+   9.2
                                       12.0*  34.8*
           36.0*ATTM    36.0*PSSD    118.4*GP  46.4BAL

           SPRING  SEMESTER  2011
      825  SUPERV INDEP STUDY INFO     199  2.0 P       PF
      826  CLASSICAL GEOMETRIE MATH    130  4.0 C    8.0
      827  COMPLEX ANALYSIS   MATH     185  4.0 B+  13.2
                                        8.0*  21.2*
           44.0*ATTM    44.0*PSSD    139.6*GP  51.6BAL
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Walter Wong, University Registrar

TRANSCRIPT INFORMATION

History

The University of California was created by an Act of the State Legislature in 1868, and classes have been given at Berkeley since 1873.

Units of Credit

Until September 1966, credits were recorded as semester units (hours). From September 1966 through summer 1983 credits were recorded as quarter units (hours). Beginning with the fall term, 1983, credits are recorded as semester units (hours). Quarter system requires 180 units for bachelor's degree. Semester system, 120.

Advanced Standing

Transfer Credit

Only credit that is accepted by the University is indicated on the transcripts of Berkeley students. Individual courses are not shown.

CLEP-Advanced Placement Credit

Examinations and credits accepted are indicated on the transcript in the same manner as transfer credit.

Course Numbering System

1 - 99	-	Lower division courses
100 - 199	-	Upper division courses
200 - 299	-	Graduate courses
300 - 499	-	Professional courses for teachers or prospective teachers
600 - 602	-	Special Study

Grades of Scholarship

Grades

The work of all students on the Berkeley campus is reported in terms of the following grades:

A	-	Excellent
B	-	Good
C	-	Fair
D	-	Barely Passed
F	-	Failure
P	-	Passed at a minimum level of C-
NP	-	Not Passed
S	-	Satisfactory or passed at a minimum level of B-
U	-	Unsatisfactory
I	-	Work incomplete, due to circumstances beyond the students control, but of passing quality
IP	-	Work in progress; final grade to be assigned upon completion of entire course sequence
NR	-	Temporary administrative grade; not included in grade point computation

The grades A, B, C, and D may be modified by plus (+) or minus (-) suffixes.

Grade Points

Grade points per unit are assigned as follows: A=4, B=3, C=2, D=1, and F=none. When attached to the grades A, B, C, and D, plus (+) grades carry three-tenths of a grade point more per unit, and minus (-) grades carry three-tenths of a grade point less per unit than unsuffixed grades, except for A+, which carries 4.0 grade points per unit as does an A.

Courses graded P, NP, S, U, I, IP, or NR are not used in computing the grade point average.

Scholastic Standing

Good Standing

Undergraduate: C average (non-negative balance)
Graduate: B average or better on all work attempted at any UC campus after a bachelor's degree.

Academic Probation

Undergraduate students are placed on academic probation if at the end of any term their cumulative grade point average is less than 2.0 (C average) computed on the total of all courses undertaken in the University. However, in the Colleges of Chemistry and Engineering, probation is determined on a term basis.

Credit Codes

Credit codes may determine the calculation of credit or annotate a course entry as follows:

Current Records System

Fall 1975 to Present

Note: An "I" assigned as of Fall 1973 to present is not included in grade point computation.

Pass/Fail Courses

PF-Course offered only on Pass/Not Pass basis
P/NP-Undergraduate grading option Passed/Not Passed
SF-Graduate grading option Satisfactory/ Unsatisfactory
SU-Graduate courses offered only on Satisfactory/ Unsatisfactory basis

PF, P/NP, SF, SU courses are not included in units ATTM (attempted) or units PSSD (passed), but are included in CREDITS COMPLETED.

Sequence Courses

T1, T2, T3-Sequence course in progress
TX-Sequence course with variable terms, in progress
TP-Sequence course in progress, taken P/NP
TS-Sequence course in progress, taken SF
2T, 3T, TT, PT, ST-Final term of sequence course with total units and final grade

Resolution of Incomplete Grades

J1	-	I replaced with letter grade
PJ	-	I replaced with a P or NP for an undergraduate
SJ	-	I replaced S or U for a graduate
JT	-	I replaced with a grade for final term of sequence course
J5	-	I to be retained permanently by an undergraduate
Q1	-	I lapsed to F
PI	-	I lapsed to NP
Q2	-	IP grade lapsed to I
RZ	-	Replacement of original grade; no credit calculation

Repeated Courses

The G-Series code appearing after a repeated course entry controls credit and grade points earned.

RD	-	Original D grade; units attempted, units passed and grade points counted
RF	-	Original F grade; units attempted units passed and grade points counted
RR	-	Original NP,I or NR; no credit calculation
G1	-	D grade repeated; additional grade points calculated
G+	-	D+ grade repeated; additional grade points calculated
G-	-	D- grade repeated; additional grade points calculated
G2	-	F grade repeated; units passed and grade points calculated
PG	-	NP grade repeated; passed/not passed units calculated
GØ	-	NP grade repeated for a letter grade; units attempted, units passed, grade points calculated; incomplete grade repeated with permission
GP	-	P grade repeated; no credit allowed
G5	-	C- or better grade repeated; no credit allowed
GT	-	I (lapsed IP) grade repeated; units attempted, units passed, grade points calculated
GB	-	2nd repeat of an F without permission; only units passed calculated
GI	-	I repeated without permission; units attempted, units passed, but no grade points calculated
GE	-	Units attempted and grade points calculated; units passed not calculated

Miscellaneous

N1	-	Grade corrected by instructor
K1	-	Credit by examination; see memoranda
DR	-	Course dropped after eighth week of term

Prefixes

C	-	Cross-listed
H	-	Honors
N	-	Summer course
R	-	Reading & Composition
W	-	On-line

Previous Record System

Prior to Fall 1975

Note: An "I" assigned prior to Fall 1973 is included in grade point computation as an F grade.

Prior to Fall 1966, explanations are included on the transcripts:

E	-	Education Abroad Program
G	-	Course repeated
GM	-	Duplicate Matriculation Credit
K	-	I grade completion deferred without loss of grade points
L	-	I completed (replaced with grade)
M	-	Allowed to take credit by examination
N	-	Grade points for I grade allowed upon completion
Q	-	Grade changed by instructor
V	-	Course in progress (sequence course)
J	-	I grade lapsed to F
R	-	Course completed in Extension Division
T	-	Course dropped
GL	-	Grade by special examination

Student I.D.: 836-954-781   Name: KLEIN   MAXIMILIAN A

Birth Date: 9/10/1988

UC/CSU IGETC	CSU GE	C-ID	DESCRIPTION	COURSE & NUMBER	UNITS ATT	COMP	GRD	GRADE POINTS	CODE
			* * * Fall 2004 * * *						
			EFFECT STUDY WRKSHP	COUN60	1.00	1.00	A	4.00	
			Semester Total:		1.00	1.00		4.00	4.000
			* * * Fall 2005 * * *						
			BASIC DRAFTING SKLS	APTECH55	< 1.50 >	0.00	D	0.00	40
			INTRO TO PROGRAMMING	CIS10	4.00	4.00	B	12.00	
			Semester Total:		4.00	4.00		12.00	3.000
			* * * Spring 2006 * * *						
			JAVA PROGRAMMING	CIS17	3.00	3.00	C	6.00	
			Semester Total:		3.00	3.00		6.00	2.000
			* * * Fall 2006 * * *						
			INTRODUCTION TO UNIX	CIS50.71	3.00	3.00	A	12.00	
			Semester Total:		3.00	3.00		12.00	4.000
			* * * Spring 2007 * * *						
			DATA STRUCT & ALGOR	CIS11	< 4.00 >	0.00	W	0.00	
2A	B04		COL ALG AND TRIG	MATH27	5.00	5.00	A	20.00	
			Semester Total:		5.00	5.00		20.00	4.000
			* * * Fall 2007 * * *						
1A	A02		READING & COMPOSITION	ENGL1A	4.00	4.00	A	16.00	
2A	B04		CALCULUS 1	MATH1A	5.00	5.00	C	10.00	
3A	C01		MUSIC HISTORY: 1880-PRES	MUS6.3	3.00	3.00	A	12.00	
			Semester Total:		12.00	12.00		38.00	3.167
			* * * Spring 2008 * * *						
4B	D02		PRINCIPLES OF ECON	ECON1A	3.00	3.00	A	12.00	
2A	B04		CALCULUS 2	MATH1B	5.00	5.00	A	20.00	
			YOGA	PHYED35	1.00	1.00	A	4.00	
5A	B01		GENERAL PHYS LECT	PHYS2A	3.00	3.00	A	12.00	
			Semester Total:		12.00	12.00		48.00	4.000
		Deans Highest Honors							
			* * * Fall 2008 * * *						
5B	B02		PHYSICAL ANTHROPOLOGY	ANTHRO1	3.00	3.00	A	12.00	
5B	B03		PHYSICAL ANTHRO LAB	ANTHRO1L	1.00	1.00	A	4.00	
4B	D02		PRINCIPLES OF ECON	ECON1B	3.00	3.00	A	12.00	
1B	A03		ADV. COMP&CRIT.THINKING	ENGL5	3.00	3.00	A	12.00	
			CALCULUS 3	MATH2A	3.00	3.00	A	12.00	
4I	D09		GENERAL PSYCHOLOGY	PSYCH1A	3.00	3.00	A	12.00	
			Semester Total:		16.00	16.00		64.00	4.000
		Deans Highest Honors							

* * * TRANSCRIPT CONTINUED * * *

Student I.D.: 836-954-781   Name: KLEIN   MAXIMILIAN A

UC/CSU IGETC	CSU GE	C-ID	DESCRIPTION	COURSE & NUMBER	UNITS ATT	COMP	GRD	GRADE POINTS	CODE
			* * * Spring 2009 * * *						
3B	C02		LITERATURE & COMPOSITION	ENGL1B	3.00	3.00	A	12.00	
			CALCULUS 4	MATH2B	3.00	3.00	A	12.00	
2A	B04		DISCRETE MATHEMATICS	MATH4	4.00	4.00	B	12.00	
			LINEAR ALGEBRA	MATH5	3.00	3.00	A	12.00	
3A	C01		CLASSICAL MUSIC APPREC	MUS7	3.00	3.00	A	12.00	
			Semester Total:		16.00	16.00		60.00	3.750

Deans Highest Honors
HONOR SOCIETY: PHI THETA KAPPA

			SRJC Cumulative totals:		72.00	72.00		264.00	3.667
			Degree Applicable totals:		72.00	72.00		264.00	3.667

* * * END OF TRANSCRIPT * * *

GRE

Examinee Score Report

Note: This report is not valid for transmission of scores to an institution.

Klein, Maximilian A.
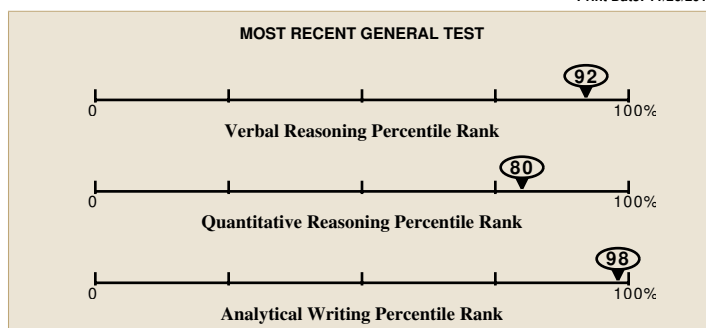
Last (Family/Surname) Name, First (Given) Name, Middle Initial

Address:	5957 Shattuck Ave Oakland, CA 94609 United States of America
Email Address:	isalix@gmail.com
Phone Number:	+17074787023
Date of Birth:	09/10/1988
Social Security Number (last 4 digits):	
Gender:	
Intended Graduate Major Code:	0407
Intended Graduate Major:	Computer and Information Sciences - Computer and Information Sciences, General
Most Recent Test Date:	07/07/2014
Registration Number:	6342546

MOST RECENT GENERAL TEST

0 — (92) — 100%
Verbal Reasoning Percentile Rank

0 — (80) — 100%
Quantitative Reasoning Percentile Rank

0 — (98) — 100%
Analytical Writing Percentile Rank

All dates are formatted as MM/DD/YYYY.

This score report includes all of your General Test and Subject Test scores earned from July 1, 2008 to the present. Only reported scores are available for display.

General Test Scores

Test Date	Verbal Reasoning*				Quantitative Reasoning*				Analytical Writing	
MM/DD/YYYY	Prior Format		Current Format		Prior Format		Current Format			
	Scaled Score	Estimated Current Score	Scaled Score	% Below	Scaled Score	Estimated Current Score	Scaled Score	% Below	Score	% Below
07/07/2014			163	92			161	80	5.5	98

NS - No Score. Indicates that no questions were answered.

* The GRE Verbal Reasoning and Quantitative Reasoning score scales changed in August 2011. For tests taken August 2011 or later, scores are printed in the "Current Format" columns. For tests taken before August 2011, scores on the prior scales and the corresponding estimated scores on the current scales are printed in the "Prior Format" columns.

Subject Test Scores

Test Date	Test Name / Subscore Name	Scaled Score	% Below

Score Recipient(s)

Your score reporting history is shown below. "Pending" indicates your scores are not yet available, or your order has not yet been processed.

Undergraduate Institution

Report Date	Institution (Code)	Department (Code)	Test Type	Test Date
07/16/2014	U CA Berkeley (4833)	Mathematics (0703)	General Test	07/07/2014

Score Recipient(s)

Report Date	Institution or Fellowship Sponsor (Code)	Department (Code)	Test Type	Test Date
07/16/2014	U CA Berkeley (4833)	Library and Information Science (4701)	General Test	07/07/2014

* Undergraduate Institution does not wish to receive scores
** Score recipient not valid/active

QUESTIONS ABOUT THIS GRE EXAMINEE SCORE REPORT

Information to help you interpret your GRE scores is available at www.ets.org/gre/stupubs. If you have any questions concerning this GRE Report of Scores, call ETS at 1-609-771-7679 or 1-866-473-4373 (toll free for test takers in the U.S., U.S. Territories*, and Canada) between 8:00 a.m. and 7:45 p.m. EST or email gre-info@ets.org. For information about interpreting your scores, consult **Interpreting Your GRE Scores**, which is available at www.ets.org/gre/understand.
Includes American Samoa, Guam, Puerto Rico, and U.S. Virgin Islands

SCORE REPORTING

Policies pertaining to score reporting and use are periodically reviewed and revised by the GRE Board. The policies and procedures explained in the 2013-14 *GRE Information and Registration Bulletin* are effective only for the time period of August 1, 2013 to June 30, 2014 and supersede previous policies and procedures in previous bulletins. GRE scores are reportable for five(5) years following the testing year (July 1 to June 30) in which you tested. Currently, GRE scores earned after July 1, 2008 are available.

PERCENTILE RANK (% BELOW)

The percentile ranks in this report indicate the percentage of examinees who scored below your score. Note that these percentile ranks may be different from those that applied when the scores were originally reported to you if the scores were earned prior to July 2013. This reflects annual updating of these data to permit admissions officers to compare scores, whenever earned, with those for a recent reference group.

RETAKING A GRE TEST

You can take the GRE revised General Test once every 21 days, and up to five times within any continuous rolling 12-month period. This applies even if you canceled your scores on a test taken previously. You may take the paper-based GRE revised General Test and GRE Subject Tests as often as they are offered.
Note: This policy will be enforced even if a violation is not immediately identified (e.g., inconsistent registration information) and test scores have been reported. In such cases, the invalid scores will be canceled and score recipients will be notified of the cancelation. Test fees will be forfeited.

SCORES NOT REPORTED

"Scores Not Reported" is listed in the Report Date column of the Score Recipients section of your score report if one of three scenarios occurs:
• You requested scores to be sent to an undergraduate institution that does not receive scores.
• The code for the graduate institution you designated to receive scores is no longer active.
• Your reportable score record does not include scores for the requested test.

Note: *This report is not valid for transmission of scores to an institution.*