

Happy 60th Birthday, Jim!



October 19, 2015

Six Books



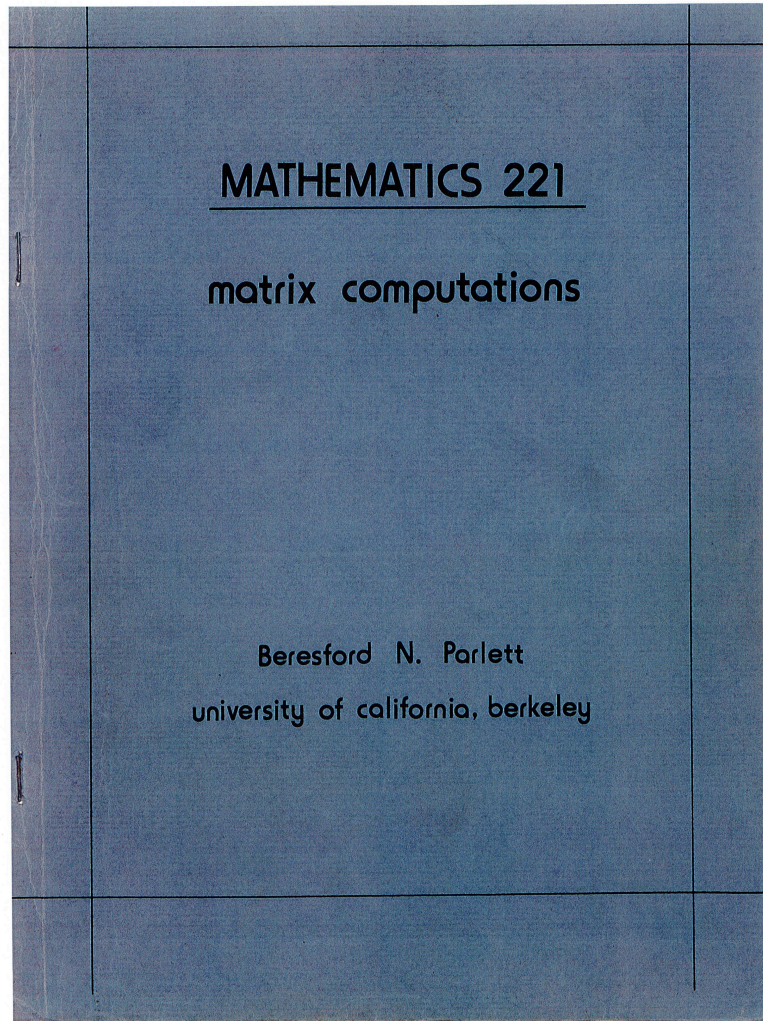
**Celebrating Jim Demmel's 60th
Birthday**

October 24, 2015

Six Books

1. Student
2. Apprentice
3. Family
4. Colleague
5. Teacher
6. Impact

1st Book - Student



**Math 221 Lecture Notes
by Beresford Parlett**

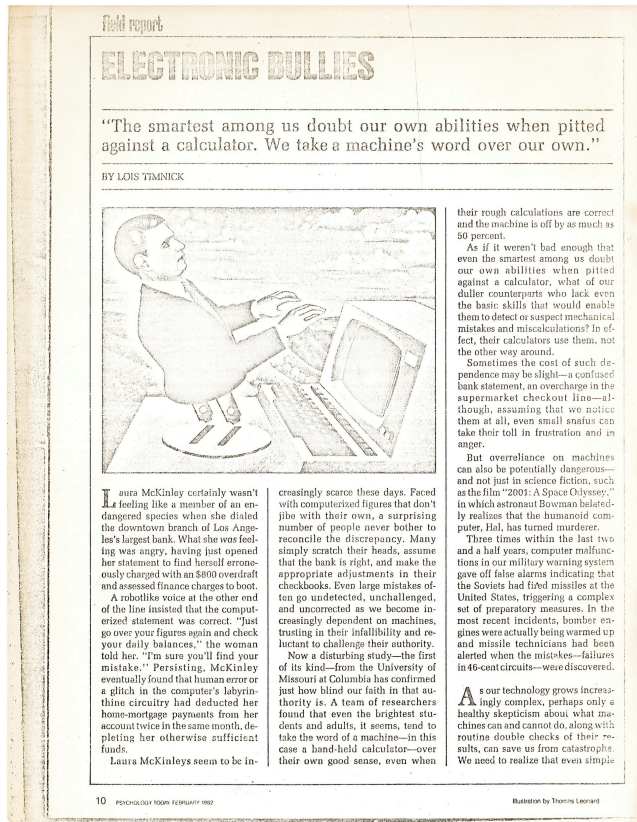
**Took this class with Jim
during Fall Quarter 1978
(Ole Hald)**



We did not have PhD Comics back in 1978, but ...



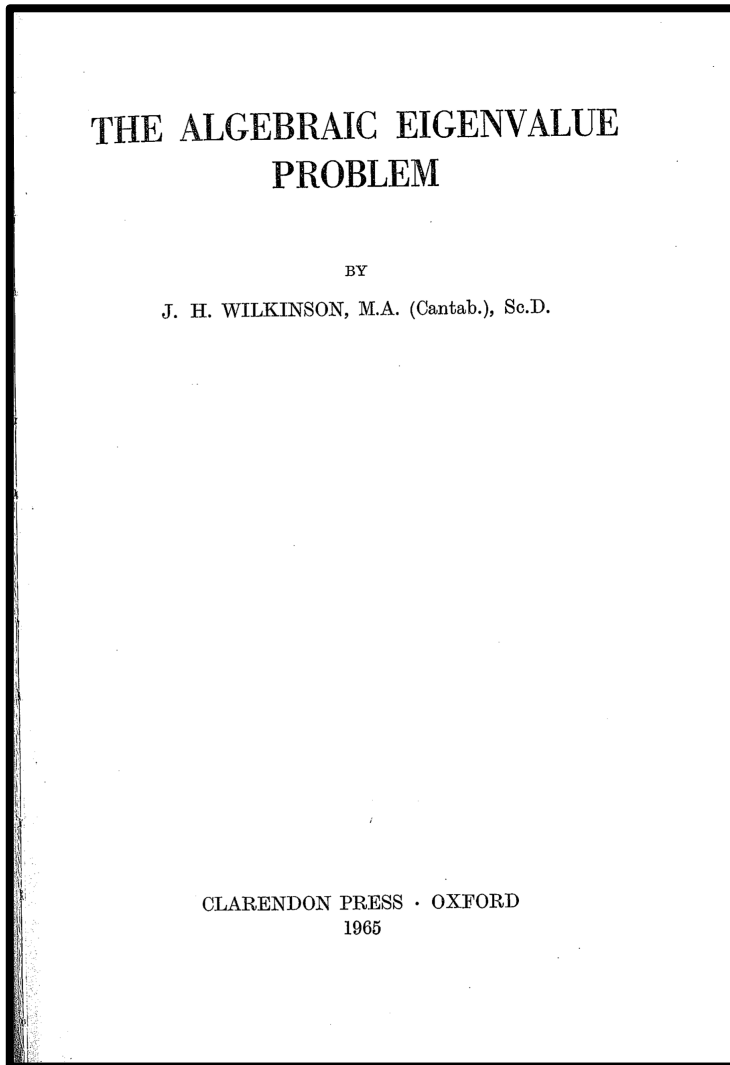
Found in my copy of Math 221 lecture notes



Copy of article from "Psychology Today", 1982.



2nd Book - Apprentice



**Jim became Velvel
Kahan's PhD student**

Why Apprentice?



About being Velvel's Apprentice

“When I was a grad student Wilkinson was visiting for a while, working with Velvel and Beresford. One time we met in the hallway in Evans, and he said to me: "You know, I don't think you're nearly as smart as your advisor thinks you are." I smiled and went on my way.”



Der Zauberlehrling

Der Zahlenlehrling

Zum Gedächtnis an Gene Golub

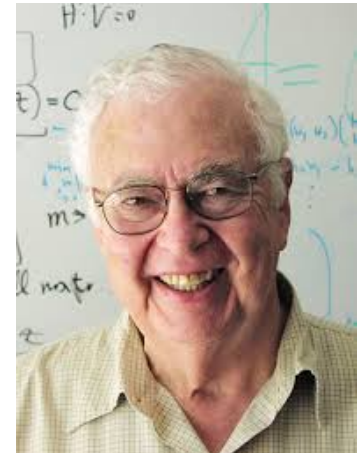
Von J. Demmel

The Sorcerer's Apprentice

The Numerical Apprentice

In memory of Gene Golub

By J. Demmel



Der Zauberlehrling

Der Zahlenlehrling

Zum Gedächtnis an Gene Golub

Hat der alte Matrixmeister
Sich für immer wegbegeben!
Und nun sollen seine Rechner
Auch nach meinem Willen
zählen!

The Sorcerer's Apprentice

The Numerical Apprentice

In memory of Gene Golub

The matrix-master's vanished
And forever gone away!
Programs called by him, now
banished,
My commands shall soon obey!

Seine Wort' und Werke
Merkt' ich, und den Brauch
Und mit Geistesstärke
Werd' ich rechnen auch.

Every step and saying
That he used, I know,
And with sprites obeying
My calculus I' ll show.

Sende, sende
Manche Busse
Dass zum Zwecke
Data fließen,
Und mit schnellen Protokollen
Zu dem Speicher sich
ergießen!

Data flowing
Over busses
Spare not any
Cache prefetching
Ever streaming, tightly scheduled,
Toward the cache in packets
gushing.

But there is more ...

WALLACE GIVENS
Applied Mathematics Division
Argonne, Ill. 60440

WALLACE GIVENS
Applied Mathematics Division
Argonne, Ill. 60440
39



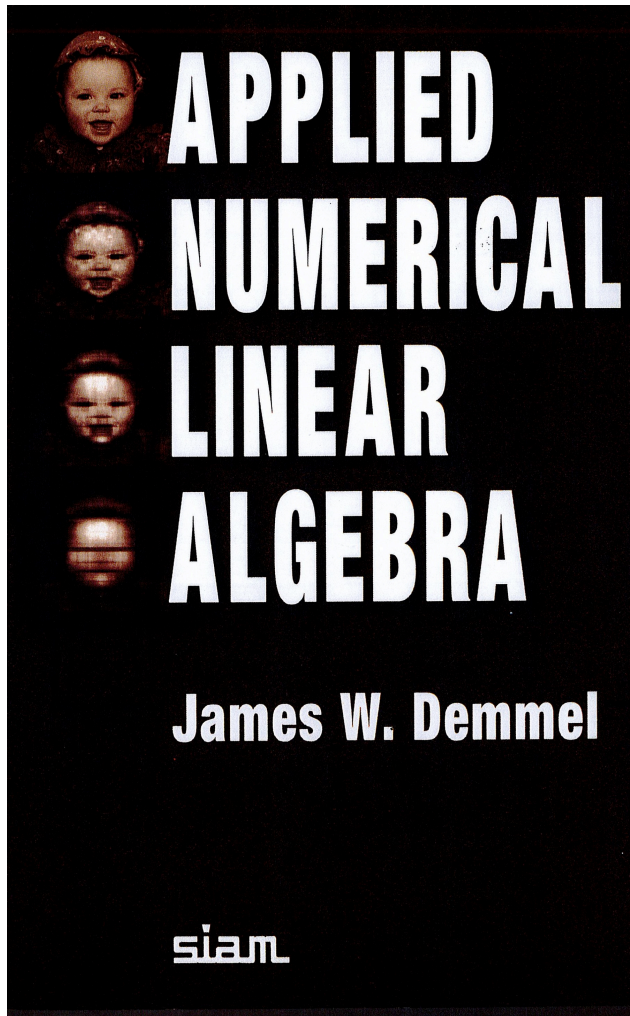
It is a pleasure to acknowledge the assistance I have received from numerous friends in this enterprise. I would like to thank Professors J. W. Carr and R. C. F. Bartels for successive invitations to lecture at the Summer Schools in Ann Arbor, thereby providing me with an annual stimulus for completing the manuscript. I am particularly indebted to Professors G. E. Forsythe and (W. J.) Givens who generously provided duplicating facilities for the two main drafts of the manuscript. This has enabled me to benefit from the opinions of a much wider circle of readers than would otherwise have been possible.

Useful comments were received from Professor G. E. For-

So how did Givens' copy of Wilkinson's book find its way to Jim?

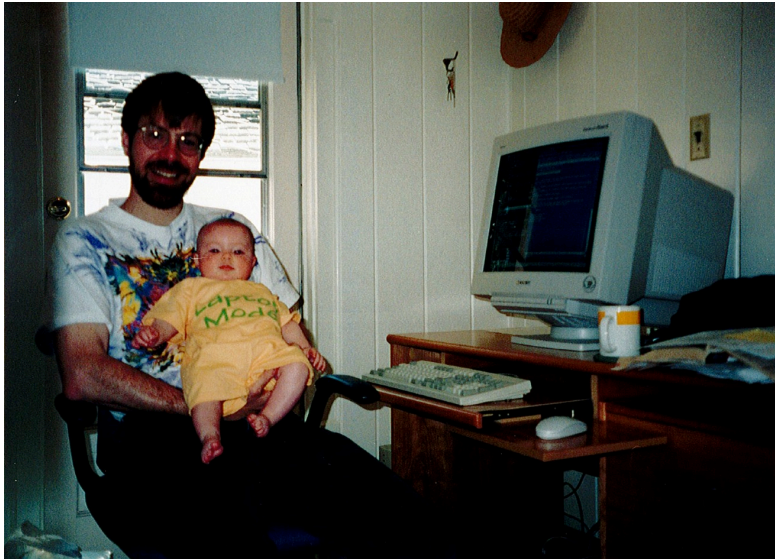


3rd Book - Family



Appeared 1997, has been used
at more than 45 schools

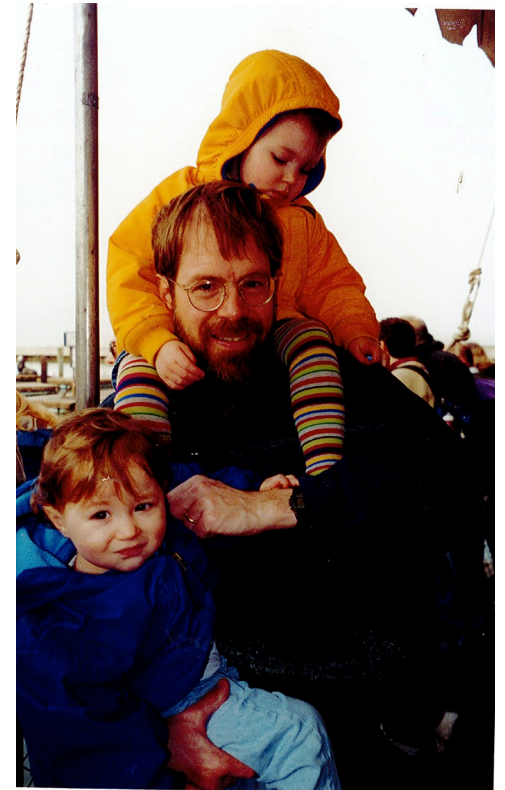
Family Photos



Megan as “laptop model”



**... and
with
Megan
and
Nathan**



Family Collaboration



Jim and Kathy have 31 publications together, many about performance, autotuning,... but there is one that peaked my curiosity:

On Holder-Brascamp-Lieb inequalities for torsion-free discrete Abelian groups, October 2015.

Don't Underestimate the Value of Applied Linear Algebra



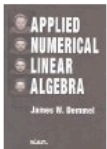
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by James W. Demmel (Author)

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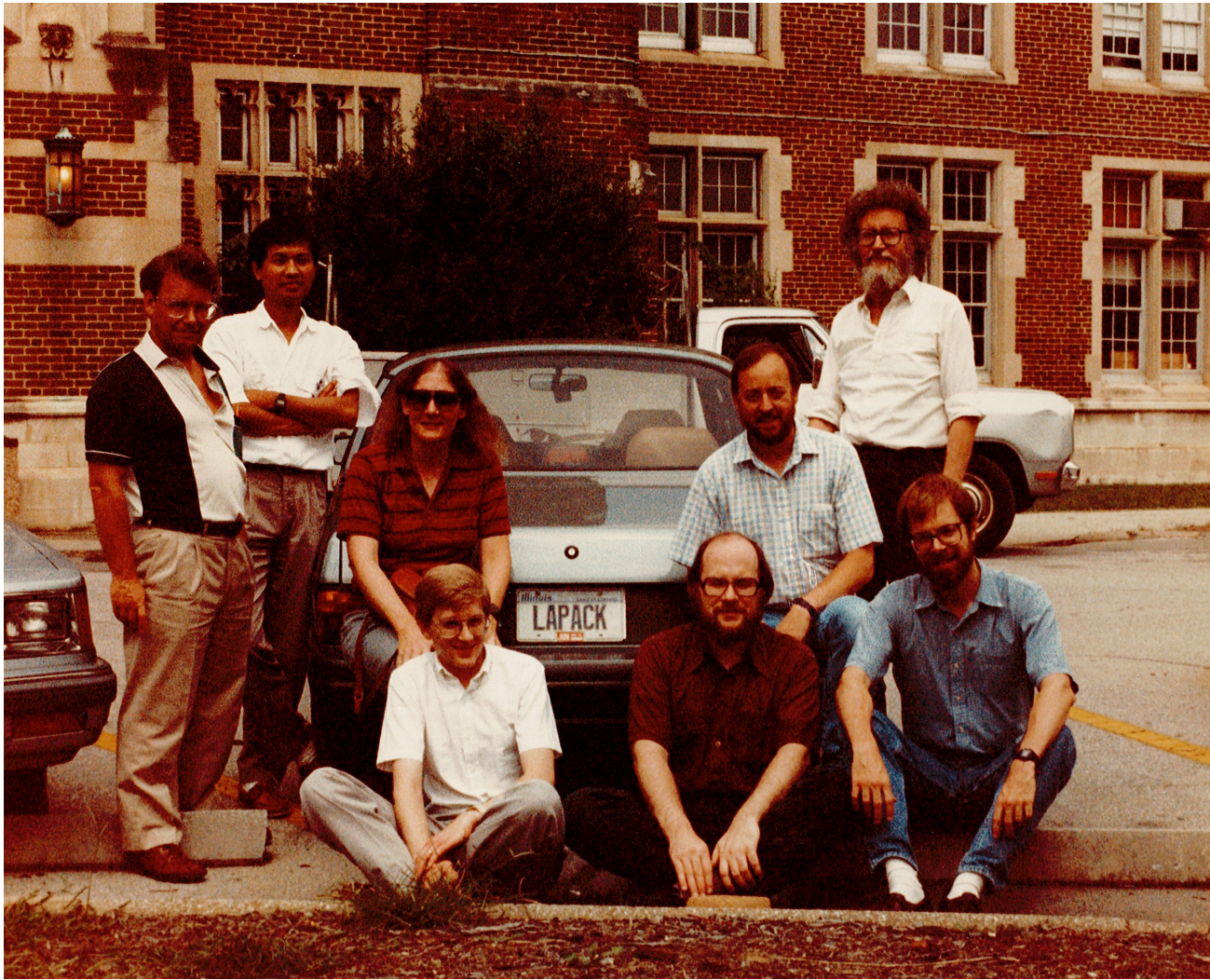
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From left: Sven Hammarling, Z. Bai, Anne Greenbaum, Ed Anderson, Alan McKenney, Jack Dongarra, Jeremy DuCroz, Jim Demmel

From an unnamed collaborator

“Horst,

I don't have any good stories about Jim that would be embarrassing or amusing ... “

Book 5 - Teacher

U.C. Berkeley CS267 Home Page

Applications of Parallel Computers

Spring 2015

T Th 9:30-11:00, 306 Soda Hall

Instructor:

- [Jim Demmel](#)
 - Offices:
564 Soda Hall ("Virginia", in ParLab), (510)643-5386
831 Evans Hall
 - Office Hours: **(subject to change)** MWF 10-11 (starting Jan 21)
 - [\(send email\)](#)

Teaching Assistants:

- [Evangelos Georganas](#)
 - Office: 5th Floor Soda Hall (ASPIRE Lab)
 - Office Hours: T/Th 1-2pm, in 283E Soda Hall (updated Jan 19)
 - [\(send email\)](#)
- [Forrest Iandola](#)

Not a book, but some of the most influential lecture notes

CS267 at EECS UC Berkeley and Worldwide

- Taught annually since 1993, with help of many of us here today
- Lecture notes used at many universities
- Adopted for world-wide broadcast by NSF/XSEDE
- SPOC (small personalized online course) with about 150 students at 17 universities in 2014

Mathematics Genealogy Project

Students

James Weldon Demmel

[MathSciNet](#)

Ph.D. University of California, Berkeley 1983 

Dissertation: *A Numerical Analyst's Jordan Canonical Form*

Advisor: [William Morton Kahan](#)

Students:

Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
Grey Ballard	University of California, Berkeley	2013	
David Bindel	University of California, Berkeley	2006	
David Blackston	University of California, Berkeley	2000	
Tzu-Yi Chen	University of California, Berkeley	2001	
Mark Hoemmen	University of California, Berkeley	2010	
Plamen Koev	University of California, Berkeley	2002	
Jiawang Nie	University of California, Berkeley	2006	
Huan Ren	University of California, Berkeley	1996	
Edward Riedy	University of California, Berkeley	2010	
Richard Vuduc	University of California, Berkeley	2004	1

According to our current on-line database, James Demmel has 10 [students](#) and 11 [descendants](#).



Plamen Koev



Sherry Li



Book 6 – Impact

The book that still needs to be written

Communication Avoiding
Algorithms

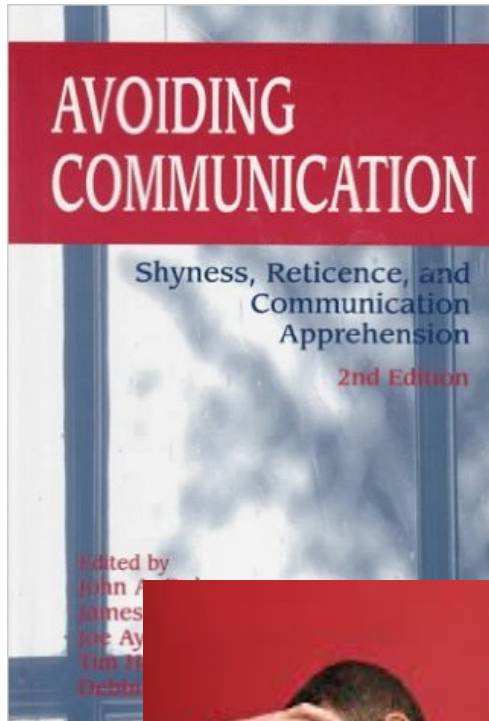
By Jim Demmel

Berkeley 2020

Because otherwise ...

Either the psychologists will claim the field,

... or we will have very fast, but incorrect computations



Happy 60th Birthday, Jim!



October 19, 2015