TEXAS STATE VITA (abridged)

I. Academic/Professional Background

A. Name: Thomas Michael Keller **Title**: Professor

B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
Doctor rerum naturalium (=Ph. D.)	1995	Johannes Gutenberg-Universität Mainz, Germany	Mathematics	*Group order and element orders in solvable groups*
Diplom (= M.S.)	1993	Johannes Gutenberg-Universität Mainz, Germany	Mathematics	*Auflösbare Gruppen mit einer kleinen Anzahl von Primteilern in den Elementeordnungen*
Vordiplom (=B.S.)	1991	Johannes Gutenberg-Universität Mainz, Germany	Physics	N/A
Vordiplom (=B.S)	1990	Johannes Gutenberg-Universität Mainz, Germany	Mathematics	N/A

C. University Experience

Position	University	Dates
Professor	Texas State University, San Marcos, USA	09/2006-present
Associate Professor	Texas State University, San Marcos, USA	09/2001-08/2006
Assistant Professor	Texas State University, San Marcos, USA	08/1997-08/2001
Research Fellow (while on leave of absence from Texas State)	Leicester University, Leicester, United Kingdom	07/1997-06/1998
Honorary Fellow	University of Wisconsin-Madison	01/1997-06/1997
Research Fellow	Ohio University, Athens, USA	07/1996-12/1996
Visiting Professor	Ohio University, Athens, USA	03/1996-06/1996
Wissenschaftlicher Mitarbeiter	Friedrich-Schiller-Universität Jena, Germany	10/1995-03/1996
Wissenschaftliche Hilfskraft (=teaching assistant)	Johannes Gutenberg-Universität Mainz, Germany	10/1991-03/1995

III. SCHOLARLY/CREATIVE

Publications

1. Books

Scholarly Monographs:

Thomas M. Keller, *Group order and element orders in solvable groups*, Berichte aus der Mathematik, Shaker Verlag, Aachen, 1995, ISBN 3-8265-0864-5

2. Articles

Refereed Journal Articles:

A combinatorial problem arising in group theory, Australas. J. Combin. **61** (2015), 175-181.

(with Y. Yang) *On nilpotent and solvable quotients of primitive groups*, J. Group Theory **18** (2015), 553–563.

(with A. Gruber, M. L. Lewis, K. A. Naughton, B. Strasser) *A Characterization of the Prime Graphs of Solvable Groups*, J. Algebra **442** (2015), 397–422.

(with Y. Yang) *Abelian quotients and orbit sizes of solvable linear groups*, Israel J. Math., to appear.

(with Y. Yang) *Orbits of finite solvable groups on characters*, Israel J. Math. **199** (2014), 933–940.

(with Y. Yang) *Regular and p-regular orbits of solvable linear groups*, J. Algebra **398** (2014), 509-518.

Finite groups have even more conjugacy classes, Israel J. Math. **181** (2011), 433--444.

(with L. Héthelyi, E. Horváth, A. Maróti), *Groups with few conjugacy classes*, Proc. Edinb. Math. Soc. (2) **54** (2011), 423--430.

Counting characters in linear group actions, Israel J. Math. **171** (2009), 367--384.

Fixed conjugacy classes of normal subgroups and the k(GV)-problem, J. Algebra **305**, 457-486 (2006).

(joint with I. M. Isaacs, U. Meierfrankenfeld, A. Moretó) *Fixed point spaces, primitive character degrees, and conjugacy class sizes*, Proc. Amer. Math. Soc. **134**, 3123-3130 (2006).

(joint with I. M. Isaacs, M. L. Lewis, A. Moretó) *Transitive permutation groups in which all derangements are involutions*, J. Pure Appl. Algebra **207**, 717-724 (2006).

Derived length and conjugacy class sizes, Adv. Math **199**, 88-103 (2006).

Inductive arguments for the non--coprime k(GV)--problem, Algebra Colloq **13**, 35-39 (2006).

The k(GV)-problem revisited, J. Austral. Math. Soc. **79**, 257-276 (2005).

(joint with D. Ragan and G. T. Tims) *On the Taketa bound for normally monomial p-groups of maximal class*}, J. Algebra **277**, 675-688 (2004).

A new approach to the k(GV)-problem, J. Austral. Math. Soc. **75**, 193-219 (2003).

Orbit sizes and character degrees, III, J. reine angew. Math. **545**, 1-17 (2002).

On the orbit sizes of permutation groups on the power set, Algebra Colloq. **7**, 27-32 (2000).

Orbit sizes and character degrees, II}, J. reine angew. Math. **516**, 27-114 (1999).

Orbit sizes and character degrees, Pacific J. Math. **187**, 317-332 (1999).

On the asymptotic Taketa bound for A-groups, J. Algebra **191**, 127-140 (1997).

A linear bound for $\rho(n)$, J. Algebra **178**, 643-652 (1995).

Solvable groups with at most four prime divisors in the element orders, J. Algebra **175**, 1-23 (1995).

On the asymptotic behaviour of $\rho(n)$, J. Algebra **174**, 587-598 (1995).

Solvable groups with a small number of prime divisors in the element orders, J. Algebra **170**, 625-648 (1994).

3. Other:

Refereed survey article in conference proceedings:

Thomas M. Keller, *Orbits in finite group actions*, Groups St. Andrews 2001 in Oxford, London Mathematical Society Lecture Notes Series **305**, Cambridge University Press, 306-331 (2003).

Papers by my students:

Ph.D. students:

J. Goodson, *Regular orbits of extra-special groups*, Algebra Colloq., 8 pages, to appear.

Master's students:

A. W. Harrison, *Bounding the order of a group with a large conjugacy class*, J. Group Theory **18** (2015), 201–207.