

# Stanford

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## John Eaton

Charles Lee Powell Foundation Professor in the School of Engineering,  
Emeritus  
Mechanical Engineering

### CONTACT INFORMATION

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### Bio

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#### BIO

Eaton uses experiments and computational simulations to study the flow and heat transfer in complex turbulent flows, especially those relevant to turbomachinery, particle-laden flows, and separated flows, and to develop new techniques for precise control of gas and surface temperature during manufacturing processes.

#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Mechanical Engineering
- Member, Maternal & Child Health Research Institute (MCHRI)

#### HONORS AND AWARDS

- Perin Award for Undergraduate Teaching, Stanford University (2013)
- Fellow, American Society of Mechanical Engineers (2013)
- Presidential Young Investigator Award, National Science Foundation (2013)
- Tau Beta Pi Award for Excellence in Undergraduate Teaching, Stanford University (2013)
- Three-Year Graduate Fellowship, National Science Foundation (2013)
- Silver Medal Award, Royal Society of the Arts (2013)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- member, Editorial Advisory Board of International Journal of Heat and Fluid Flow (2013 - present)
- member, Tau Beta Pi (2013 - present)
- member, Phi Beta Kappa (2013 - present)
- member, Sigma Xi (2013 - present)

#### PROFESSIONAL EDUCATION

- PhD, Stanford University, Mechanical Engineering (1980)

## Publications

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### PUBLICATIONS

- **Assessing the Impact of Cardiac Output and Valve Orientation on Bioprosthetic Pulmonary Valve Hemodynamics Using In Vitro 4D-Flow MRI and High-Speed Imaging.** *Cardiovascular engineering and technology*  
Schiavone, N. K., Nair, P. J., Elkins, C. J., McElhinney, D. B., Ennis, D. B., Eaton, J. K., Marsden, A. L.  
2024
- **Comparison of Immersed Boundary Simulations of Heart Valve Hemodynamics Against In Vitro 4D Flow MRI Data.** *Annals of biomedical engineering*  
Kaiser, A. D., Schiavone, N. K., Elkins, C. J., McElhinney, D. B., Eaton, J. K., Marsden, A. L.  
2023
- **A coupled framework for symbolic turbulence models from deep-learning** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*  
Lav, C., Banko, A. J., Waschkowski, F., Zhao, Y., Elkins, C. J., Eaton, J. K., Sandberg, R. D.  
2023; 101
- **Experimental investigation of particle aggregation in a humid and turbulent environment** *INTERNATIONAL JOURNAL OF MULTIPHASE FLOW*  
Hoffman, D. W., Eaton, J. K.  
2023; 163
- **MRV challenge 2: phase locked turbulent measurements in a roughness array** *EXPERIMENTS IN FLUIDS*  
Benson, M. J., Banko, A. J., Elkins, C. J., An, D., Song, S., Bruschiowski, M., Grundmann, S., Bandopadhyay, T., Roca, L., Sutton, B., Han, K., Hwang, W., Eaton, et al  
2023; 64 (1)
- **Magnetic Resonance Imaging measurements of scalar dispersion for a scaled urban transient release** *BUILDING AND ENVIRONMENT*  
Homan, T. A., Benson, M. J., Banko, A. J., Elkins, C. J., Chung, D. H., Rhee, J., Mooradian, L. D., Eaton, J. K.  
2021; 205
- **On the generality of tensor basis neural networks for turbulent scalar flux modeling** *INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER*  
Milani, P. M., Ling, J., Eaton, J. K.  
2021; 128
- **Isotropic turbulence apparatus with a large vertical extent** *EXPERIMENTS IN FLUIDS*  
Hoffman, D. W., Eaton, J. K.  
2021; 62 (10)
- **Velocity and concentration field measurements and large eddy simulation of a shaped film cooling hole** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*  
Gunady, I. E., Milani, P. M., Banko, A. J., Elkins, C. J., Eaton, J. K.  
2021; 90
- **Conjugate Heat Transfer Analysis Using the Discrete Green's Function** *JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME*  
Hoffman, D. W., Eaton, J. K.  
2021; 143 (3)
- **In Vitro Assessment of Right Ventricular Outflow Tract Anatomy and Valve Orientation Effects on Bioprosthetic Pulmonary Valve Hemodynamics.** *Cardiovascular engineering and technology*  
Schiavone, N. K., Elkins, C. J., McElhinney, D. B., Eaton, J. K., Marsden, A. L.  
2021
- **Turbulent scalar flux in inclined jets in crossflow: counter gradient transport and deep learning modelling** *JOURNAL OF FLUID MECHANICS*  
Milani, P. M., Ling, J., Eaton, J. K.  
2020; 906

- **The Discrete Green's Function for Convective Heat Transfer-Part 1: Definition and Physical Understanding** *JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME*  
Eaton, J. K.  
2020; 142 (10)
- **Experimental Analysis of a Particle Separator Design With Full-Field Three-Dimensional Measurements** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*  
Borup, D. D., Elkins, C. J., Eaton, J. K.  
2020; 142 (10)
- **The Discrete Green's Function for Convective Heat Transfer-Part 2: Semi-Analytical Estimates of Boundary Layer Discrete Green's Function** *JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME*  
Eaton, J. K., Milani, P. M.  
2020; 142 (10)
- **Temperature statistics in a radiatively heated particle-laden turbulent square duct flow**  
Banko, A. J., Villafane, L., Kim, J., Eaton, J. K.  
ELSEVIER SCIENCE INC.2020
- **The 2019 MRV challenge: turbulent flow through a U-bend** *EXPERIMENTS IN FLUIDS*  
Benson, M. J., Banko, A. J., Elkins, C. J., An, D., Song, S., Bruschiowski, M., Grundmann, S., Borup, D. D., Eaton, J. K.  
2020; 61 (6)
- **Experimental Study of Flow Inside a Centrifugal Fan Using Magnetic Resonance Velocimetry** *JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME*  
Hoffman, D. W., Villafane, L., Elkins, C. J., Eaton, J. K.  
2020; 142 (4)
- **Large-eddy simulation study of unsteady wake dynamics and geometric sensitivity on a skewed bump** *JOURNAL OF FLUID MECHANICS*  
Ching, D. S., Eaton, J. K.  
2020; 885
- **Shear layer of inclined jets in crossflow studied with spectral proper orthogonal decomposition and spectral transfer entropy** *INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER*  
Milani, P. M., Ching, D. S., Banko, A. J., Eaton, J. K.  
2020; 147
- **An improved three-dimensional concentration measurement technique using magnetic resonance imaging** *EXPERIMENTS IN FLUIDS*  
Banko, A. J., Benson, M. J., Gunady, I. E., Elkins, C. J., Eaton, J. K.  
2020; 61 (2)
- **Transport and dispersion of particle-Laden streaks in a standardized human nasal geometry** *EXPERIMENTS IN FLUIDS*  
Borup, D. D., Engel, L. E., Elkins, C. J., Eaton, J. K.  
2020; 61 (2)
- **Generalization of Machine-Learned Turbulent Heat Flux Models Applied to Film Cooling Flows** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*  
Milani, P. M., Ling, J., Eaton, J. K.  
2020; 142 (1)
- **Enriching MRI mean flow data of inclined jets in crossflow with Large Eddy Simulations** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*  
Milani, P. M., Gunady, I. E., Ching, D. S., Banko, A. J., Elkins, C. J., Eaton, J. K.  
2019; 80
- **3D MRI measurements of the effects of wind direction on flow characteristics and contaminant dispersion in a model urban canopy** *ENVIRONMENTAL FLUID MECHANICS*  
Shim, G., Prasad, D., Elkins, C. J., Eaton, J. K., Benson, M. J.  
2019; 19 (4): 851–78
- **Effects of motion on MRI signal decay from micron-scale particles.** *Journal of magnetic resonance (San Diego, Calif. : 1997)*

- Borup, D. D., Elkins, C. J., Eaton, J. K.  
2019; 305: 152–61
- **Experimental Study of Periodic Free Stream Unsteadiness Effects on Discrete Hole Film Cooling in Two Geometries** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*  
Borup, D. D., Fan, D., Elkins, C. J., Eaton, J. K.  
2019; 141 (6)
  - **Stochastic modeling of direct radiation transmission in particle-laden turbulent flow** *JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER*  
Banko, A. J., Villafane, L., Kim, J., Esmaily, M., Eaton, J. K.  
2019; 226: 1–18
  - **Physical Interpretation of Machine Learning Models Applied to Film Cooling Flows** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*  
Milani, P. M., Ling, J., Eaton, J. K.  
2019; 141 (1)
  - **GENERALIZATION OF MACHINE-LEARNED TURBULENT HEAT FLUX MODELS APPLIED TO FILM COOLING FLOWS**  
Milani, P. M., Ling, J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2019
  - **COMPOUND ANGLE EFFECTS ON SHAPED HOLE FILM COOLING**  
Gunady, I. E., Borup, D. D., Banko, A. J., Elkins, C. J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2019
  - **EXPERIMENTAL STUDY OF FLOW INSIDE A CENTRIFUGAL FAN USING MAGNETIC RESONANCE VELOCIMETRY**  
Hoffman, D. W., Villafane, L., Elkins, C. J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2019
  - **EXPERIMENTAL ANALYSIS OF A PARTICLE SEPARATOR DESIGN WITH FULL-FIELD 3D MEASUREMENTS**  
Borup, D. D., Elkins, C. J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2019
  - **Unsteady vortex structures in the wake of nonaxisymmetric bumps using spiral MRV** *EXPERIMENTS IN FLUIDS*  
Ching, D. S., Elkins, C. J., Alley, M. T., Eaton, J. K.  
2018; 59 (10)
  - **Investigation of geometric sensitivity of a non-axisymmetric bump: 3D mean velocity measurements** *EXPERIMENTS IN FLUIDS*  
Ching, D. S., Elkins, C. J., Eaton, J. K.  
2018; 59 (9)
  - **Development and validation of an MRI-based method for 3D particle concentration measurement**  
Borup, D. D., Elkins, C. J., Eaton, J. K.  
ELSEVIER SCIENCE INC.2018: 275–87
  - **3D Measurements of coupled freestream turbulence and secondary flow effects on film cooling** *EXPERIMENTS IN FLUIDS*  
Ching, D. S., Xu, H. H. A., Elkins, C. J., Eaton, J. K.  
2018; 59 (6)
  - **Measurements in discrete hole film cooling behavior with periodic freestream unsteadiness** *EXPERIMENTS IN FLUIDS*  
Fan, D., Borup, D. D., Elkins, C. J., Eaton, J. K.  
2018; 59 (3)
  - **A Machine Learning Approach for Determining the Turbulent Diffusivity in Film Cooling Flows** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*  
Milani, P. M., Ling, J., Saez-Mischlich, G., Bodart, J., Eaton, J. K.  
2018; 140 (2)
  - **EXPERIMENTAL STUDY OF PERIODIC FREE STREAM UNSTEADINESS EFFECTS ON DISCRETE HOLE FILM COOLING IN TWO GEOMETRIES**

Borup, D. D., Fan, D., Elkins, C. J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2018: 327-41

- **PHYSICAL INTERPRETATION OF MACHINE LEARNING MODELS APPLIED TO FILM COOLING FLOWS**  
Milani, P. M., Ling, J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2018
- **Turbulent Scalar Mixing in a Skewed Jet in Crossflow: Experiments and Modeling** *FLOW TURBULENCE AND COMBUSTION*  
Ryan, K. J., Bodart, J., Folkersma, M., Elkins, C. J., Eaton, J. K.  
2017; 98 (3): 781-801
- **TRANSPORT OF MICROPARTICLES IN A TURBULATED SERPENTINE PASSAGE**  
Borup, D. D., Elkins, C. J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2017
- **MAGNETIC RESONANCE THERMOMETRY EXPERIMENTAL SETUP: A PORTABLE HEAT TRANSFER EXPERIMENT**  
Williams, E. T., Spirnak, J. R., Samland, M. C., Tremont, B. G., McQuirter, A. L., VerHulst, C. M., Van Poppel, B. P., Benson, M. J., Elkins, C. J.,  
Burton, L. S., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2017
- **A MACHINE LEARNING APPROACH FOR DETERMINING THE TURBULENT DIFFUSIVITY IN FILM COOLING FLOWS**  
Milani, P. M., Ling, J., Saez-Mischlich, G., Bodart, J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2017
- **Validation of magnetic resonance concentration measurements with adiabatic wall temperature measurements** *EXPERIMENTS IN FLUIDS*  
Sayles, E. L., Eaton, J. K.  
2016; 57 (12)
- **Oscillatory flow in the human airways from the mouth through several bronchial generations** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*  
Banko, A. J., Coletti, F., Elkins, C. J., Eaton, J. K.  
2016; 61: 45-57
- **Film Cooling Effectiveness Improvements Using a Nondiffusing Oval Hole** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*  
Issakhanian, E., Elkins, C. J., Eaton, J. K.  
2016; 138 (4)
- **Three-dimensional flow field around and downstream of a subscale model rotating vertical axis wind turbine** *EXPERIMENTS IN FLUIDS*  
Ryan, K. J., Coletti, F., Elkins, C. J., Dabiri, J. O., Eaton, J. K.  
2016; 57 (3)
- **Analysis of Turbulent Scalar Flux Models for a Discrete Hole Film Cooling Flow** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*  
Ling, J., Ryan, K. J., Bodart, J., Eaton, J. K.  
2016; 138 (1)
- **The Effect of Land Taper Angle on Trailing Edge Slot Film Cooling** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*  
Ling, J., Elkins, C. J., Eaton, J. K.  
2015; 137 (7)
- **Optimal Turbulent Schmidt Number for RANS Modeling of Trailing Edge Slot Film Cooling** *JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME*  
Ling, J., Elkins, C. J., Eaton, J. K.  
2015; 137 (7)
- **Three-dimensional inspiratory flow in the upper and central human airways** *EXPERIMENTS IN FLUIDS*  
Banko, A. J., Coletti, F., Schiavazzi, D., Elkins, C. J., Eaton, J. K.  
2015; 56 (6)
- **Near Wall Modeling for Trailing Edge Slot Film Cooling** *JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME*

- Ling, J., Rossi, R., Eaton, J. K.  
2015; 137 (2)
- **Shock boundary layer interactions in a low aspect ratio duct** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*  
Campo, L. M., Eaton, J. K.  
2015; 51: 353-371
  - **BUILDING BLOCK EXPERIMENTS IN DISCRETE HOLE FILM COOLING**  
Ryan, K. J., Coletti, F., Elkins, C. J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2015
  - **A COMPARISON OF SHADOWGRAPHY AND X-RAY COMPUTED TOMOGRAPHY IN LIQUID SPRAY ANALYSIS**  
Lee, Z., Eichner, D., Tennis, J., Ryan, M., Sowell, T., Benson, M., Van Poppel, B., Nelson, T., Guzman, P., Fahrig, R., Eaton, J., Kurman, M. S., Kweon, et al  
AMER SOC MECHANICAL ENGINEERS.2015
  - **ANALYSIS OF TURBULENT SCALAR FLUX MODELS FOR A DISCRETE HOLE FILM COOLING FLOW**  
Ling, J., Ryan, K. J., Bodart, J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2015
  - **FILM COOLING EFFECTIVENESS IMPROVEMENTS USING A NON-DIFFUSING OVAL HOLE**  
Issakhanian, E., Elkins, C. J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2015
  - **QUANTITATIVE MRI MEASUREMENTS OF HOT STREAK DEVELOPMENT IN A TURBINE VANE CASCADE**  
Yapa, S. D., Elkins, C. J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2015
  - **Confinement effects in shock wave/turbulent boundary layer interactions through wall-modelled large-eddy simulations** *JOURNAL OF FLUID MECHANICS*  
Bermejo-Moreno, I., Campo, L., Larsson, J., Bodart, J., Helmer, D., Eaton, J. K.  
2014; 758: 5-62
  - **Comparison of magnetic resonance concentration measurements in water to temperature measurements in compressible air flows** *EXPERIMENTS IN FLUIDS*  
Yapa, S. D., D'Atri, J. L., Schoech, J. M., Elkins, C. J., Eaton, J. K.  
2014; 55 (11)
  - **Sensitivity of an asymmetric, three-dimensional diffuser to inlet condition perturbations** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*  
Sayles, E. L., Eaton, J. K.  
2014; 49: 100-107
  - **Three-Dimensional Mass Fraction Distribution of a Spray Measured by X-Ray Computed Tomography** *JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME*  
Coletti, F., Benson, M. J., Sagues, A. L., Miller, B. H., Fahrig, R., Eaton, J. K.  
2014; 136 (5)
  - **Fluid flow and scalar transport through porous fins** *PHYSICS OF FLUIDS*  
Coletti, F., Muramatsu, K., Schiavazzi, D., Elkins, C. J., Eaton, J. K.  
2014; 26 (5)
  - **A matching pursuit approach to solenoidal filtering of three-dimensional velocity measurements** *JOURNAL OF COMPUTATIONAL PHYSICS*  
Schiavazzi, D., Coletti, F., Iaccarino, G., Eaton, J. K.  
2014; 263: 206-221
  - **Analysis of Oxide (Al<sub>2</sub>O<sub>3</sub>, CuO, and ZnO) and CNT Nanoparticles Disaggregation Effect on the Thermal Conductivity and the Viscosity of Nanofluids** *INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING*  
Lee, J., Yoon, Y., Eaton, J. K., Goodson, K. E., Bai, S. J.  
2014; 15 (4): 703-710

- **A comprehensive model of magnetic particle motion during magnetic drug targeting** *INTERNATIONAL JOURNAL OF MULTIPHASE FLOW*  
Cherry, E. M., Eaton, J. K.  
2014; 59: 173-185
- **THE EFFECT OF LAND TAPER ANGLE ON TRAILING EDGE SLOT FILM COOLING**  
Ling, J., Elkins, C. J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2014
- **THREE-DIMENSIONAL VELOCITY MEASUREMENTS AROUND AND DOWNSTREAM OF A ROTATING VERTICAL AXIS WIND TURBINE**  
Ryan, K. J., Coletti, F., Dabiri, J. O., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2014
- **ENDWALL VORTEX EFFECTS ON TURBULENT DISPERSION OF FILM COOLANT IN A TURBINE VANE CASCADE**  
Yapa, S. D., Elkins, C. J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2014
- **OPTIMAL TURBULENT SCHMIDT NUMBER FOR RANS MODELING OF TRAILING EDGE SLOT FILM COOLING**  
Ling, J., Elkins, C. J., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2014
- **Experimentally informed optimization of turbulent diffusivity for a discrete hole film cooling geometry** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*  
Ling, J., Coletti, F., Yapa, S. D., Eaton, J. K.  
2013; 44: 348-357
- **Heat Transfer Coefficient Measurements on the Film-Cooled Pressure Surface of a Transonic Airfoil** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*  
Kodzwa, P. M., Eaton, J. K.  
2013; 135 (6)
- **Turbulent transport in an inclined jet in crossflow** *7th International Symposium on Turbulence Heat and Mass Transfer (THMT)*  
Coletti, F., Benson, M. J., Ling, J., Elkins, C. J., Eaton, J. K.  
ELSEVIER SCIENCE INC.2013: 149–160
- **An inclined jet in crossflow under the effect of streamwise pressure gradients** *EXPERIMENTS IN FLUIDS*  
Coletti, F., Elkins, C. J., Eaton, J. K.  
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- **Local mass transfer measurements for corals and other complex geometries using gypsum dissolution** *EXPERIMENTS IN FLUIDS*  
Chang, S., Elkins, C., Eaton, J. K., Monismith, S.  
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- **Heat Transfer and Pressure Drop of Lotus-Type Porous Metals** *JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME*  
Muramatsu, K., Ide, T., Nakajima, H., Eaton, J. K.  
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- **Experimental-Based Redesigns for Trailing Edge Film Cooling of Gas Turbine Blades** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*  
Benson, M., Yapa, S. D., Elkins, C., Eaton, J. K.  
2013; 135 (4)
- **Shear thinning effects on blood flow in straight and curved tubes** *PHYSICS OF FLUIDS*  
Cherry, E. M., Eaton, J. K.  
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- **Three-Dimensional Velocity and Scalar Field Measurements of an Airfoil Trailing Edge With Slot Film Cooling: The Effect of an Internal Structure in the Slot** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*  
Ling, J., Yapa, S. D., Benson, M. J., Elkins, C. J., Eaton, J. K.  
2013; 135 (3)

- **Flow Separation Control in an Annular to Conical Diffuser Using Two-Dimensional and Three-Dimensional Wall Steps** *JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME*  
Lo, K. P., Elkins, C. J., Eaton, J. K.  
2013; 135 (4)
- **Film-Cooled Trailing Edge Measurements: 3D Velocity and Scalar Field** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*  
Benson, M., Laskowski, G., Elkins, C., Eaton, J. K.  
2013; 135 (1)
- **THREE-DIMENSIONAL MASS FRACTION DISTRIBUTION OF A SPRAY MEASURED BY X-RAY COMPUTED TOMOGRAPHY**  
Coletti, F., Benson, M. J., Sagues, A. L., Miller, B. H., Fahrig, R., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2013
- **MEASUREMENTS OF A TRAILING EDGE SLOT FILM COOLING GEOMETRY DESIGNED FOR REDUCED COOLANT FLOWRATE AND HIGH SURFACE EFFECTIVENESS**  
Ling, J., Elkins, C. J., Benson, M. J., Yapa, S. D., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2013
- **Turbulent Transport in an Inclined Jet in Crossflow** *Int. J. Heat and Fluid Flow*  
Coletti, F., Benson, M., J., Ling, J., B., Elkins, C., J., Eaton, J., K.  
2013
- **3D Velocity and Scalar Field Measurements of an Airfoil Trailing Edge with Slot Film Cooling: The Effect of an Internal Structure in the Slot.** *ASME J. Turbomachinery*  
Ling, J., Yapa, S., D., Benson, M., J., Elkins, C., J., Eaton, J., K.  
2013; 135 (3): 0131018-1 -8
- **Experimentally Informed Optimization of Turbulent Diffusivity for a Discrete Hole Film Cooling Geometry** *Int. J. Heat and Fluid Flow*  
Ling, J., Coletti, F., Yapa, S., D., Eaton, J., K.  
2013
- **In-hole and mainflow velocity measurements of low-momentum jets in crossflow emanating from short holes** *EXPERIMENTS IN FLUIDS*  
Issakhanian, E., Elkins, C. J., Eaton, J. K.  
2012; 53 (6): 1765-1778
- **Three-dimensional features of a Mach 2.1 shock/boundary layer interaction** *EXPERIMENTS IN FLUIDS*  
Helmer, D. B., Campo, L. M., Eaton, J. K.  
2012; 53 (5): 1347-1368
- **Separation control in a conical diffuser with an annular inlet: center body wake separation** *EXPERIMENTS IN FLUIDS*  
Lo, K. P., Elkins, C. J., Eaton, J. K.  
2012; 53 (5): 1317-1326
- **HIV Treatment as Prevention: Systematic Comparison of Mathematical Models of the Potential Impact of Antiretroviral Therapy on HIV Incidence in South Africa** *PLOS MEDICINE*  
Eaton, J. W., Johnson, L. F., Salomon, J. A., Baernighausen, T., Bendavid, E., Bershteyn, A., Bloom, D. E., Cambiano, V., Fraser, C., Hontelez, J. A., Humair, S., Klein, D. J., Long, et al  
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- **Effects of varying Reynolds number, blowing ratio, and internal geometry on trailing edge cutback film cooling** *EXPERIMENTS IN FLUIDS*  
Benson, M. J., Elkins, C. J., Yapa, S. D., Ling, J. B., Eaton, J. K.  
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- **Sensitivity of an asymmetric 3D diffuser to vortex-generator induced inlet condition perturbations** *EXPERIMENTS IN FLUIDS*  
Grundmann, S., Sayles, E. L., Elkins, C. J., Eaton, J. K.  
2012; 52 (1): 11-21
- **EXPERIMENTAL-BASED REDESIGNS FOR TRAILING EDGE FILM COOLING OF GAS TURBINE BLADES**  
Benson, M., Yapa, S., Elkins, C., Eaton, J. K., ASME  
AMER SOC MECHANICAL ENGINEERS.2012: 1175-+

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