

Stanford



John Eaton

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

CONTACT INFORMATION

- **Alternate Contact**

Susan Dorman - Administrative Assistant

Email susand2@stanford.edu

Bio

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)

Teaching

COURSES

2021-22

- Convective Heat Transfer: ME 352C (Spr)

2020-21

- Introduction to Mechanical Engineering: ME 1 (Aut)

Publications

PUBLICATIONS

- **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., Bruschewski, 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., Bruschewski, 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
- **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
- **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)
- **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. 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., Tannis, 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 (Al₂O₃, 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.
2013; 54 (9)

- **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.
2013; 54 (7)

- **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.
2013; 135 (7)

- **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.
2013; 25 (7)

- **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.
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- **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.
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- **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
2012; 9 (7)
- **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.
2012; 52 (6): 1415-1430
- **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-+
- **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 Turbo Expo 2012*
Ling, J., Yapa, S. D., Benson, M. J., Elkins, C. J., Eaton, J. K.
AMER SOC MECHANICAL ENGINEERS.2012: 1279–1288

- **THREE-DIMENSIONAL VELOCITY MEASUREMENTS OF FILM COOLING FLOW UNDER FAVORABLE PRESSURE GRADIENT ASME Turbo Expo 2012**
Coletti, F., Elkins, C. J., Eaton, J. K.
AMER SOC MECHANICAL ENGINEERS.2012: 1627–1638
- **HEAT TRANSFER PERFORMANCE OF LOTUS TYPE POROUS METALS ASME Summer Heat Transfer Conference (SHTC)**
Muramatsu, K., Ide, T., Nakajima, H., Eaton, J. K.
AMER SOC MECHANICAL ENGINEERS.2012: 31–40
- **MAGNETIC RESONANCE IMAGING STUDIES OF FLOW AND MIXING FOR SINGLE-HOLE FILM COOLING ASME Turbo Expo 2011**
Issakhanian, E., Elkins, C. J., Eaton, J. K.
AMER SOC MECHANICAL ENGINEERS.2012: 57–64
- **FILM-COOLED TRAILING EDGE MEASUREMENTS: 3D VELOCITY AND SCALAR FIELD ASME Turbo Expo 2011**
Benson, M., Laskowski, G., Elkins, C., Eaton, J. K.
AMER SOC MECHANICAL ENGINEERS.2012: 1–10
- **Measurements of 3D velocity and scalar field for a film-cooled airfoil trailing edge EXPERIMENTS IN FLUIDS**
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