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Professor of Physics

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Education and Training

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| Stanford University, Stanford, CA | Physics BS (1984) |
| Univ. of Il. at Champaign-Urbana , Urbana, IL | Physics MS (1985) |
| Univ. of Il. at Champaign-Urbana , Urbana, IL | Physics PhD (1991) |

Appointments

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| 2007 – present | Senior Scientist and Affiliate Professor, Idaho Accelerator Center |
| 2009 – present | Professor, Idaho State University |
| 2006 – 2009 | Professor and Chair, Idaho State University Department of Physics |
| 2003 – 2005 | Sabbatical Scientist, Jefferson Laboratory |
| 2000 – 2006 | Associate Professor, University of Kentucky |
| 1994 – 2000 | Assistant Professor, University of Kentucky |
| 1991 – 1994 | Mass. Inst. of Technology, Research Staff |
| 1985 – 1991 | Research Assistant, University of Illinois |

Refereed Publications

- High precision photon flux determination for photon tagging experiments, A. Teymurazyan, *et al.*, Nucl. Inst. Meth., A767: 300-309, 2014.
- Measurements of the $\gamma^*p \rightarrow \Delta$ reaction at low Q^2 , N. Sparveris, S. Stave, P. Achenbach, C. Ayerbe Gayoso, D. Baumann, J. Bernauer, A.M. Bernstein, R. Böhm, D. Bosnar, T. Botto A. Christopoulou, D. Dale, M. Ding, M.O. Distler, L. Doria, J. Friedrich, A. Karabarounis, M. Makek, H. Merkel, U. Muller, I. Nakagawa, R. Neuhausen, L. Nungesser, C.N. Papanicolas, A. Piegsa, J. Pochodzalla, M.Potokar, M. Seimetz, S. Sirca, S. Stiliaris, Th. Walcher, M. Weis, Eur.Phys.J. A49, 136, 2013.
- Virtual Compton Scattering and the Generalized Polarizabilities of the Proton at $Q^2=0.92$ and 1.76 GeV^2 , the Jefferson Laboratory Hall A Collaboration, Phys. Rev. C86, 015210, 2012.
- A New Measurement of the π^0 Radiative Width, I. Larin, *et al.*, the PrimEx Collaboration, Phys. Rev. Lett. 106:162303, 2011.
- The G0 Experiment: Apparatus for Parity-Violating Electron Scattering Measurements at Forward and Backward Angles, D. Androic, *et al.*, Nucl. Instr. Meth. A646:59-86, 2011.

- Nuclear incoherent photoproduction of π^0 and eta from 4 to 12 GeV, T.E. Rodrigues, J.D.T. Arruda-Neto, J. Mesa, C. Garcia, K. Shtejer, D. Dale, I. Nakagawa, P. Cole, Phys. Rev. C82:024608, 2010.
- Nuclear Targets for a Precision Measurement of the Neutral Pion Radiative Width, the PrimEx Collaboration, Nucl. Instr. Meth. A612:46-49, 2009.
- Photoproduction of $\pi^+ \pi^-$ meson pairs on the proton, the Jefferson Laboratory CLAS Collaboration, Phys. Rev. D80 072005, 2009.
- A Precise Measurement of the Neutron Magnetic Form Factor G_M^n in the Few-GeV² Region, the Jefferson Laboratory CLAS Collaboration, Phys. Rev. Lett. 102 192001, 2009.
- First measurement of direct $f_0(980)$ photoproduction on the proton, the Jefferson Laboratory CLAS Collaboration, Phys. Rev. Lett. 102, 102001, 2009.
- Exclusive ρ^0 electroproduction on the proton at CLAS, the Jefferson Laboratory CLAS Collaboration, Eur. Phys. J. A39, 5-31, 2009.
- Moments of the Spin Structure Functions $g^p(1)$ and $g^d(1)$ for $0.05 < Q^2 < 3.0\text{-GeV}^2$, the Jefferson Laboratory CLAS Collaboration, Phys.Lett. B672, 12-16, 2009.
- Search for the photo-excitation of exotic mesons in the $\pi^+ \pi^+ \pi^-$ system, the Jefferson Laboratory CLAS Collaboration, Phys.Rev.Lett. 102, 102002, 2009.
- First measurement of target and double spin asymmetries for polarized-e polarized-p \rightarrow e p π^0 in the nucleon resonance region above the Delta(1232), the Jefferson Laboratory CLAS Collaboration, Phys.Rev. C78, 045204, 2008.
- Virtual Compton Scattering measurements in the $\gamma^* N \rightarrow \Delta$ transition, N.F. Sparveris, P. Achenbach, C. Ayerbe Gayoso, D. Baumann, J. Bernauer, A.M. Bernstein, R. Bohm, D. Bosnar, T. Botto, A. Christopoulou, D. Dale, M.O. Distler, L. Doria, Andreas Karabarounis, M. Makek, Harald Merkel, Ulrich Muller, I. Nakagawa, R. Neuhausen, L. Nungesser, C.N. Papanicolas, B. Pasquini, A. Piegsa, J. Pochodzalla, M. Potokar, M. Seimetz, S. Sirca, S. Stave, S. Stiliaris, Th. Walcher, M. Weis, Phys.Rev. C78 018201, 2008.
- Electroexcitation of the Roper resonance for $1.7 < Q^2 < 4.5 \text{ GeV}^2$ in ep \rightarrow en π^+ , the Jefferson Laboratory CLAS Collaboration, Phys.Rev. C78, 045209, 2008.
- Electroproduction of $\phi(1020)$ mesons at $1.4 < Q^2 < 3.8 \text{ GeV}^2$ measured with the CLAS spectrometer, the Jefferson Laboratory CLAS Collaboration, Phys. Rev. C78, 025210, 2008.
- Measurements of the $\gamma^* p \rightarrow \Delta$ Reaction At Low Q^2 : Probing the Mesonic Contribution, S. Stave, N. Sparveris, M.O. Distler, I. Nakagawa, P. Achenbach, C. Ayerbe Gayoso, D. Baumann, J. Bernauer, A.M. Bernstein, R. Bohm, D. Bosnar, T. Botto, A. Christopoulou, D. Dale, M. Ding, L. Doria, J. Friedrich, A. Karabarounis, M. Makek, H. Merkel, U. Muller, R. Neuhausen, L. Nungesser, C.N. Papanicolas, A. Piegsa, J. Pochodzalla, M. Potokar, M. Seimetz, S. Sirca, S. Stiliaris, Th. Walcher, M. Weis, Phys. Rev. C78, 025209, 2008.
- Polarized Structure Function $\sigma(LT')$ for p(polarized-e, e' K^+) Lambda in the Nucleon Resonance Region, the Jefferson Laboratory CLAS Collaboration, Phys. Rev. C77, 065208, 2008.
- Cross sections and beam asymmetries for e p \rightarrow en π^+ in the nucleon resonance region for $1.7 \leq Q^2 \leq 4.5\text{-GeV}^2$, the Jefferson Laboratory CLAS Collaboration, Phys. Rev. C77, 015208, 2008.
- $\eta \rightarrow \gamma\gamma$ decay width via the Primakoff cross section. T.E. Rodrigues, J. Mesa, C. Garcia, K. Shtejer, D. Dale, I. Nakagawa, P.L. Cole, Phys. Rev. Lett. 101, 012301, 2008.
- Transverse Beam Spin Asymmetries in Forward-Angle Elastic Electron-Proton Scattering, the G0 Collaboration, Phys. Rev. Lett. 99, 092301, 2007.
- Determination of quadrupole strengths in the $\gamma^* p \rightarrow \Delta(1232)$ transition at $Q^2=0.2(\text{GeV}/c)^2$, N.F. Sparveris, *et al.*, Phys. Lett B651: 102-107, 2007.
- Energy calibration of the JLab bremsstrahlung tagging system. S. Stepanyan *et al.*, Nucl. Instr. Meth. A572:654-661, 2007.
- Extraction of the neutron magnetic form-factor from quasi-elastic polarized-He-3(polarized-e, e-prime) at $Q^2 = 0.1 - 0.6 (\text{GeV}/c)^2$, the Jefferson Lab E95-001 Collaboration, Phys.Rev. C75, 034003, 2007.

- Search for θ^{++} pentaquarks in the exclusive reaction $\gamma p \rightarrow K^+ K^- p$, the Jefferson Laboratory CLAS Collaboration, Phys. Rev. Lett. 97, 102001, 2006.
- The nuclear matter effects in π^0 photoproduction at high energies, T.E. Rodrigues, J.D.T. Arruda-Neto, C. Garcia, K. Shtejer, J. Mesa, D. Dale, I. Nakagawa, Braz. J. Phys. 36, 1366-1370, 2006.
- Search for $\theta(1540)$ pentaquark in high statistics measurement of $\gamma p \rightarrow \text{anti-}K^0 K^+ n$ at CLAS, CLAS Collaboration (M. Battaglieri, *et al.*), Phys. Rev. Lett. 96:042001, 2006.
- Search for the θ^+ pentaquark in the reactions $\gamma p \rightarrow \text{anti-}K^0 K^+ n$ and $\gamma p \rightarrow \text{anti-}K^0 K^0 p$, the CLAS Collaboration (R. De Vita, *et al.*), Phys. Rev. D74:032001, 2006.
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- Proton elastic form-factor ratios to $Q^2 = 3.5\text{-GeV}^2$ by polarization transfer, V. Punjani, *et al.*, Phys. Rev. C71, 055202, 2005.
- Measuring the transition form factors of pseudoscalar mesons at low Q^2 , D. Dale, Fizika B13, 365-372, 2004.
- The electromagnetic properties of the light pseudoscalar mesons via the Primakoff effect, D. Dale, Braz.J.Phys. 34, 983-985, 2004.
- Basic Instrumentation for Hall A at Jefferson Lab, J. Alcorn, *et al.*, Nucl. Instrum. Meth. A522, 294-346, 2004.
- Measurement of R(LT) and A(TL) in the He-4(e, e')H-3 reaction at p_{miss} of 130-MeV/c to 300-MeV/c, K.A. Aniol, M.B. Epstein, E. Gama, D.J. Margaziotis, W. Bertozzi, Jian-Ping Chen, D. Dale, R.E.J. Florizone, S. Gilad, A.J. Sarty, J.A. Templon, S.P. Van Verst, J. Zhao, Z.-L. Zhou, P. Bartsch, W.U. Boeglin, R. Boehm, M.O. Distler, I. Ewald, J.M. Friedrich, J.M. Friedrich, R. Geiges, P. Jennewein, M. Kahrau, K.W. Krygier, A. Liesenfeld, H. Merkel, K. Merle, U. Muller, R. Neuhausen, E.A.J.M. Offermann, Th. Pospischil, G. Rosner, H. Schmieden, A. Wagner, Th. Walcher, M. Kuss, A. Richter, G. Schrieder, K. Bohinc, M. Potokar, S. Sirca, J.M. Udias, Javier R. Vignote, R. Schiavilla, Eur.Phys.J. A22, 449-454, 2004.
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- Measurement of the generalized polarizabilities of the proton in virtual Compton scattering at $Q^2 = 0.92\text{-GeV}^2$ and 1.76-GeV^2 , the Jefferson Lab Hall A Collaboration, Phys. Rev.Lett. 93, 122001, 2004.
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- The Dynamics of the quasielastic O-16(e, e') p reaction at $Q^2 \sim 0.8 \text{ (GeV/c)}^2$, the Jefferson Lab Hall A Collaboration, Phys.Rev. C70, 034606, 2004.
- A Measurement of the exclusive He-3(e, e') p reaction below the quasielastic peak, A. Kozlov, A.J. Sarty, K.A. Aniol, P. Bartsch, D. Baumann, W. Bertozzi, K. Bohinc, R. Bohm, Jian-Ping Chen, D. Dale, L. Dennis, S. Derber, M. Ding, M.O. Distler, P. Dragovitsch, I. Ewald, K.G. Fissum, J. Friedrich, J.M. Friedrich, R. Geiges, S. Gilad, P. Jennewein, M. Kahrau, M. Kohl, K.W. Krygier, A.

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 - Vertical drift chambers for the Hall A high-resolution spectrometers at Jefferson Lab, K.G. Fissum, W. Bertozzi, Jian-Ping Chen, D. Dale, Howard C. Fenker, J. Gao, A. Gavalya, S. Gilad, C.R. Leathers, N. Liyanage, R.O. Michaels, E.A.J.M. Offermann, J. Segal, J.A. Templon, Risa H. Wechsler, B. Wojtsekhowski, J. Zhao, Nucl. Instrum. Meth. A474, 108-131, 2001.
 - Precision measurement of the spin dependent asymmetry in the threshold region of polarized He-3(polarized-e, e'), F. Xiong, D. Dutta, W. Xu (MIT, LNS), B. Anderson, L. Auerbach, T. Averett, W. Bertozzi, T. Black, J. Calarco, L. Cardman, G.D. Cates, Z.W. Chai, Jian-Ping Chen, S. Choi, E. Chudakov, S. Churchwell, G.S. Corrado, Christopher B. Crawford, D. Dale, A. Deur, P. Djawotho, B.W. Filippone, J.M. Finn, H. Gao, Ronald A. Gilman, A.V. Glamazdin, C. Glashausser, Walter Gloeckle, J. Golak, J. Gomez, V.G. Gorbenko, J.O. Hansen, F.W. Hersman, D.W. Higinbotham, R. Holmes, C.R. Howell, E. Hughes, B. Humensky, S. Incerti, C.W. de Jager, J.S. Jensen, X. Jiang, C.E. Jones, M. Jones, R. Kahl, H. Kamada, A. Kievsky, I. Kominis, W. Korsch, K. Kramer, G. Kumbartzki, M. Kuss, E. Lakuriqi, M. Liang, N. Liyanage, J. LeRose, S. Malov, D.J. Margaziotis, J.W. Martin, K. McCormick, R.D. McKeown, Kevin L. McIlhany, Z.E. Meziani, R. Michaels, G.W. Miller, E. Pace, T. Pavlin, G.G. Petratos, R.I. Pomatsalyuk, D. Pripstein, D. Prout, R.D. Ransome, Y. Roblin, M. Rvachev, A. Saha, G. Salme, M. Schnee, T. Shin, K. Slifer, P.A. Souder, S. Strauch, R. Suleiman, M. Sutter, B. Tipton, L. Todor, M. Viviani, B. Vlahovic, J. Watson, C.F. Williamson, H. Witala, B. Wojtsekhowski, J. Yeh, P. Zolnierczuk, Phys.Rev.Lett. 87, 242501, 2001.
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Recent Talks

Linac Based Photonuclear Applications at the Idaho Accelerator Center, Eleventh Topical Meeting on Nuclear Applications of Accelerators, Brugges, Belgium, August 2013.

A Precision Measurement of the Neutral Pion Lifetime, international conference on Electromagnetic Interactions in Nucleons and Nuclei, Paphos, Cyprus, November 2011.

Applied Physics Research at the Idaho Accelerator Center, invited talk at the Korean Atomic Energy Research Institute, Workshop on Electron Beam Applications, Daejon, Korea, March 2011.

Active Interrogation at the Idaho State University Idaho Accelerator Center, Lawrence Berkeley Laboratory, January 2010.

Photofission of Actinides with Linearly Polarized Photons, VIII Latin American Symposium on Nuclear Physics Applications, Santiago, Chile, December 2009.

Status of the PrimEx Experiment at Jefferson Lab, Invited talk at the 7th European research conference on “Electromagnetic Interactions of Nucleons and Nuclei”, Milos, Greece, September 2007.

Synergistic Activities

- Research mentor for undergraduate physics students continuously from 1994 to the present.
- Numerous public lectures and physics demonstration shows for K-12 classrooms.
- Numerous lectures given for the Idaho State University NSF REU (Research Experience for Undergraduates) program.
- Numerous colloquia given at various universities.

Collaborators and Other Affiliations

- Spokesperson, Jefferson Laboratory *PrimEx* Collaboration.
- Past member of the JLab CLAS Collaboration.
- Past member of the JLab Hall A Collaboration.
- Past member University of Mainz A1 Collaboration.
- Graduate and Postdoctoral Advisors
 - Doctoral: Paul Debevec and Ronald Laszewski, University of Illinois at Urbana-Champaign
Thesis: “*A Measurement of the Isovector Giant Quadrupole Resonance in Lead-208 using Linearly Polarized Photons,*” 1991.
 - Postdoctoral: William Bertozzi, Massachusetts Institute of Technology
- Post docs hosted
 - Ashot Gasparian (currently a Professor at NCA&T University)
 - Liping Gan (currently a Professor at the University of North Carolina Wilmington)
 - Itaru Nakagawa (currently working at RIKEN, Japan)
- Graduate Students Advised
 - Masters: Marianna Gabrielyan, M.S. 2006, University of Kentucky; Jasen Swansen, M.S. Idaho State University 2012.
 - PhD: Aram Teymurazyan, Ph.D. 2008; Oleksei Kosinov, Ph.D. Idaho State University, in progress. Jeff Burggraf and Kevin Tsai, M.S. Idaho State University, in progress.