**CURRICULUM VITAE**

**FOR**

George Yuzhu Fu, Ph.D., P.Eng.

Professor in Water and Environmental Engineering

Director of Water and Environmental Research Laboratory

Department of Civil Engineering and Construction

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#### **Profile** Dr. George Yuzhu Fu is Professor in Water and

#### Environmental Engineering in the Department of Civil

#### Engineering and Construction at Georgia Southern University. He has been studying, working and researching in Environmental Engineering with an emphasis on Water and Environment for more than 30 years. He has completed/is working over $700K in externally funded research mainly as PI, and has published more than 35 scholarly works in developing innovative and cost-effective Water and Wastewater Treatment Processes. He has developed and established Water and Environmental Research Lab (1,000 ft2) with a variety of state-of-the-art instruments with a total worth of more than $200K. He also has over 10 years of professional engineering experience in well-known national/international consulting companies including AECOM, SNC-Lavalin, and North China Municipal Engineering Design & Research Institute as Environmental and Project Engineer.

#### **Highlights**

* A total of 19 peer-reviewed journal papers have been published. As of 1/5/2020, Dr. Fu’s Google Scholar showed All Citations: 2,574 and Since 2015 Citations: 866; h-index: 12; and i10-index: 13. One paper published in 2001 has been cited 1,259 times.
* PIs/Co-PIs of a number of funded research projects in water and environment in a total amount of approximately $860,000, including CAD$75,000 individual discovery grant from Natural Science and Engineering Research Council (NSERC) of Canada as PI, which is equivalent to National Science Foundation (NSF) of US.
* As Co-PI, recipient of the 1st Prize of Advanced Science & Technology awarded by the Ministry of Construction, China for developing High Efficient Biological Process in Wastewater Treatment.
* Advisor for one (1) Postdoctoral Associate for GDOT Research Project in 2018-2020.
* Co-Advisor for two (2) Ph.D. candidates. One Ph.D. candidate received his Ph.D. degree and has become a faculty at Tianjin University in China since 2011.
* Advisor for six (6) Master students and Co-Advisor for one (1) Master student.
* Nominee by the Department Chair for the 2012 – 2013 Georgia Southern University (GSU) Award for Excellence in Research and Creative Scholarly Activity.
* Nominee by the Department Chair for the 2012 – 2013 College of Science and Technology (COST) Excellence in Research Award at GSU.
* 17-year teaching experience in developing and delivering variety of courses and labs in Water and Environmental Engineering.
* 11-year work experience in various environmental engineering projects, especially in the field of water and wastewater engineering as Environmental/Municipal Engineer and Project Engineer for national/international consulting companies such as AECOM SNC-Lavalin and North China Municipal Engineering Design and Research Institute.

#### **Academic Credentials**

2002 **Ph.D. in Environmental Systems Engineering,** **Faculty of Engineering**, University of Regina, Saskatchewan, Canada.

**Dissertation**: Removal of Dyes from Aqueous Solutions by the Fungus *Aspergillus niger*.

**Ph.D. Dissertation Advisor**: Dr. Viraraghavan

1989 **M.S. in Environmental Engineering,** **Department of Civil Engineering**, Tianjin University, former Peiyang University (1st University founded in 1895), China.

**Thesis**: Optimal Design of Sanitary and Storm Sewer Networks.

**Master Thesis Advisor**: Professor Wang, Xunjian.

1986 **B.S. in Environmental Engineering,** **Department of Civil Engineering,** Tianjin University, China.

**Capstone Senior Project:** Design of Activated Sludge

Biological Wastewater Treatment Plant.

#### **Awards & Prizes**

2017 One of the Finalists, Musfiques Salahin, my Master student, was

selected by 2017 Georgia Environmental Conference (GEC) Student Scholarship Poster Competition and he was invited to attend 12th Annual GEC in Jekyll Island, GA for free, 8/23-25/2017.

3rd Place of the Best Graduate Posters out of over 90 posters,

prepared and presented by my two Master students Musfiques Salahin and Md Azizur Rahman in CEIT Student Research Symposium 2017– Poster presentation at GSU on 4/20/2017

2014 The Best Paper Presentation received by my Senior Project

Team at the 2nd Annual Georgia Undergraduate Research Conference, January 24-25, 2014 at Columbus State University, GA.

2013 2nd Place of the Best Graduate Posters out of about 35 posters,

prepared and presented by my Master student Emerson Christie in the inaugural CEIT Student Research Symposium 2013 – Poster presentation at GSU on 4/10/2013.

Stellar Student, Emerson Christie, my Master student, was

recognized by GSU. He represented GSU at the Foundation's Wild Game Supper in Atlanta, Georgia in 2013.

2011 Nominated by Department Chair, Dr. Brian Moore, from the

Department of Construction Management and Civil Engineering (CMCE) for the 2012-2013 GSU Award for Excellence in Research and/or Creative Scholarly Activity,

and the 2012-2013 College of Science and Technology (COST) Excellence in Research Award at GSU, respectively.

1997 As Co-PI, 1st Prize awarded by the Ministry of Construction,

China forStudy on High Efficient Process (Adsorption - Biological Oxidization (AB), a German System) for Wastewater Treatment.

1991 As major participant, 2nd Prize awarded by the Ministry of

Construction, China forStudy on Kinetics of Removal of Nitrogen and Phosphorus from Wastewater Using Anaerobic/Anoxic/Aerobic (A2/O) Process.

#### **Research Grants Obtained**

2018 – 2020 Investigation on Water Quality Impacts of Bridge Stormwater

Runoff from Scupper Drains on Receiving Waters.

Funded by Georgia Department of Transportation

(GDOT). $300,000.

**Single PI: Dr. George Fu.**

2018 Removal of Contaminants of Emerging Concern (CECS) from

Secondary/Tertiary Treated Wastewater for Direct/Indirect Portable Water Reuse Using Biofilter of Granular Activated Carbon (GAC). Funded by GSU Faculty Research Seed Funding. $6,570.

**Single PI: Dr. George Fu.**

2018 Removal of CECS from Secondary/Tertiary Treated Wastewater

for Direct/Indirect Portable Water Reuse Using Biofilter of Granular Activated Carbon (GAC). Funded by GSU Faculty Research Seed Funding. $2,400.

**Single PI: Dr. George Fu.**

2017 – 2018 Development of a Nine-Element Watershed Management Plan

for the Black Creek HUC-10 #0306020205 Sub Watershed of the Ogeechee River Basin. Funded by the Georgia Environmental Protection Division (GA EPD). $58,333.

**Co-PI: Dr. George Fu.**

2015 – 2017 Color Removal from Pulp Mill Effluent Using Immobilized Coal Fly

Ash (CFA) Produced from Georgia Coal Combustion Power Plants. Funded by Georgia Power Georgia Research for Academic Partnership in Engineering (GRAPE) 2014. $100,000.

**Single PI: Dr. George Fu.**

2015 Micromeritics SediGraph III Plus Automatic Particle Size

Analyzer. Awarded by GSU FY15 End-of-Year Equipment Fund through competition. $44,810.

**Single PI: Dr. George Fu.**

2014 – 2017 Microbial conversion of nitrate and selenate for the removal of

nitrogen and selenium from Flue Gas Desulfurization (FGD) wastewater in Georgia Power Plants. Funded by Georgia Power GRAPE 2013 & 2014. $150,000.

**Co-PI: Dr. George Fu.**

2014 Watershed Assessment and Bacterial Source Tracking for the

Vernon River Basin. Funded by City of Savannah, $13,923.

**Co-PI: Dr. George Fu.**

Survey of Well Water Quality (WQ) and its Impact on Public

Health in Statesboro, Bulloch County and Beyond Using State-of-Art Instruments for Water Chemical Analysis. Funded by CEIT Faculty Research Seed Grants at GSU. $10,000.

**Co-PI: Dr. George Fu.**

Shimadzu GC/MS for Investigation of Disinfection By-Product

(DBP) Precursors and other emerging contaminants from Surface Waters. Funded by GSU FY 14 End-of-Year President Allocation. $53,750.

**Single PI: Dr. George Fu.**

2013 – 2014 Color removal from pulp mill effluent using coal ash produced

from Georgia coal combustion power plants. Funded by the Faculty Research Committee FY (2013-14) Research Seed Funding Award at GSU. $10,000.

**Single PI: Dr. George Fu.**

2013 Instrument (Atomic Absorption Spectrophotometer: Shimadzu

AA7000G Graphite Furnace) Request for the Project of “Color Removal from Pulp Mill Effluent Using Coal Ash Produced from Georgia Coal Combustion Power Plants”. Funded by the Faculty Research Seed Grant FY (2013-14) from the College of Engineering and Information Technology (CEIT) at GSU. $30,000.

**Single PI: Dr. George Fu.**

Interdisciplinary Study on Removal of Color and Disinfection By-

Product Precursors from Surface Waters Using Biological Granular Activated Carbon Filters as the First Treatment Unit (Referred to as PreBiofilters). Funded by the GSU FY13 End-of-Year Research Funding awarded by the Office of the VP Research & Economic Development. $54,300.

**Single PI: Dr. George Fu.**

Color Removal from Pulp Mill Effluent Using Coal Ash Produced

from Georgia Coal Combustion Power Plants. Funded by the GSU FY13 End-of-Year Research Funding awarded by the Office of the VP Research & Economic Development. $9,500.

**Single PI: Dr. George Fu.**

2011 – 2012 Mechanism Study of Biofilm Community on PreBiofilters Using

Molecular Biology Methods. Funded by the COST Interdisciplinary Research Funding at GSU. $10,000.

**PI: Dr. George Fu**; Co-PI: Dr. Tiehang Wu.

2011 Shimadzu TOC analyzer (Combustion Analyzer, PC Controlled,

Regular Sensitivity, Auto-Aqueous TOC Analyzer) for investigation of total trihalomethane formation potential (TTHMFP) of filtrate from PreBiofilters used as pretreatment for surface water treatment. Funded by GSU Equipment Fund for New Engineering Program. $25,000

**Single PI: Dr. George Fu.**

2009 – 2010 Surface water treatment for coastal municipal and industrial use.

Funded by Focused Research Program between COST of GSU and Georgia Tech – Savannah. $30,000 (The Grant No.: 39G9A52).

**PI: Dr. George Fu**; Co-PI: Dr. Paul Work.

2004 – 2012 Color removal from pulp mill effluent by the fungus *Aspergillus*

*niger.* Funded byNSERC Discovery Grant – Individual. $75,000. (The Grant No.: NSERC RGPIN 261646-04).

**Single PI: Dr. George Fu.**

2004 Canada Foundation for Innovation (CFI) matching fund by OUC

Vice President – Research Internal Research Support Fund. $22,000.

**Single PI: Dr. George Fu**.

2004 CFI matching fund by OUC Strategic Directions and Innovation

Fund. $11,000.

**Single PI: Dr. George Fu.**

2004 CFI matching fund by OUC Grant-in-Aid. $2,000

**Single PI: Dr. George Fu.**

2002 – 2005 Optimal operation of the Black Mountain Water Treatment Plant

(BMWTP). Funded by OUC Grant-In-Aid. $2,500.

**Single PI: Dr. George Fu.**

#### **Publications**

1. **Papers in Refereed Journals**

* Willett, Christopher, **Fu, George, Yuzhu**, and Jackson, N. Mike (2018) Color removal from pulp mill effluent using coal ash produced from Georgia coal combustion power plants. Environmental Engineering and Management Journal, 18 (5), 945-956. (Impact Factor: 1.096).
* Cui, Hang, Gu, Xiaogang, Lu, Shuguang, Fu, Xiaori, Zhang, Xiang, **Fu, George Y.**, Qiu, Zhaofu, and Sui, Qian (2017) Degradation of ethylbenzene in aqueous solution by sodium percarbonate activated with EDDS–Fe(III) complex. Chemical Engineering Journal, 309 80-88 DOI: 10.1016/j.cej.2016.10.029. (Impact Factor: 6.216).
* Fu, Xiaori, Gu, Xiaogang, Lu, Shuguang, Sharma, Virender K., Brusseau, Mark L., Xue, Yunfei, Danish, Muhammad, **Fu, George Y.**, and Sui, Qian (2017) Benzene oxidation by Fe(III)-activated percarbonate: matrix-constituent effects and degradation pathways. Chemical Engineering Journal, 309 22-29 DOI: 10.1016/j.cej.2016.10.006 (Impact Factor: 6.216)
* Zang, Xueke, Gu, Xiaogang, Lu, Shuguang, Miao, Zhouwei, Zhang, Xiang, Fu, Xiaori, **Fu, George, Y.**, Qiu, Zhaofu, and Sui, Qian (2017) Enhanced degradation of trichloroethene by sodium percarbonate activated with Fe (II) in the presence of citric acid. Water Science and Technology: Water Supply, 17(3) 665-673 DOI: 10.2166/ws.2016.117 (Impact Factor: 0.573).
* Miao, Zhouwei, Gu, Xiaogang, Lu, Shuguang, Zang, Xuke, Wu, Xiaoliang, Xu, Minhui, Ndong, Landry Biyoghe Bi, Qiu, Zhaofu, Sui, Qian, and **Fu George Yuzhu** (2015) Perchloroethylene (PCE) oxidation by percarbonate in Fe2+-catalyzed aqueous solution: PCE performance and its removal mechanism. Chemosphere, 119 1120-1125 (Impact Factor: 4.208)
* Wu,Tiehang, **Fu, Yuzhu (George)**, Sabulaa, Michael, and Brown, Tommy (2014) Bacterial community in the biofilm of granular activated carbon (GAC) PreBiofilter in bench-scale pilot plants for surface water pretreatment. World Journal of Microbiology and Biotechnology, 30 (12) 3251-3262. DOI 10.1007/s11274-014-1752-7 (Impact Factor: 1.658).
* Wang, Liang, **Fu, Yuzhu (George)**, Zhao, Bin, Zhang, Zhaohui, Guo, Xingfei and Zhang, Hongwei (2014). Degradation of di-n-butyl phthalate in aqueous solution by the O3/UV process. Journal of Desalination and Water Treatment, 52 (4-6) 824-833.

DOI: 10.1080/19443994.2013.826844 (Impact Factor: 1.631).

* Abedini, Ali. R., Atwater, James W. and **Fu, George Yuzhu**. (2012). Effect of recycling activities on the heating value of solid waste: case study of the Greater Vancouver Regional District (Metro Vancouver). Waste Management and Research, Volume 30(8), 839-848 (Impact Factor: 1.114).
* Peng, Sen, **Fu, George Yuzhu**, Zhao, Xinhua and Moore, Brian C. (2011). Integration of environmental fluid dynamics code **(**EFDC) model with Geographical Information System (GIS) platform and its applications. Journal of Environmental Informatics, Volume 17(2), 75-82. DOI:10.3808/jei.201100189 (Impact Factor: 2.533).
* **Fu, George Yuzhu** and Viraraghavan, T. (2011). Removal of Disperse Red 1 from an aqueous solution by fungus *Aspergillus niger*. Desalination and Water Treatment, 25, 187-194 (Impact Factor: 1.631).
* Grainger, Sarah, **Fu, George Yuzhu**, and Hall, Eric (2011). Biosorption of colour imparting substances in biologically treated pulp mill effluent using *Aspergillus niger* fungal biomass. Published online first by Journal of Water, Air and Soil Pollution, Volume 217: 233-244. [DOI: 10.1007/s11270-010-0582-y](http://dx.doi.org/10.1007/s11270-010-0582-y) (Impact Factor: 1.625).
* Peng, Sen, **Fu, George Yuzhu** and Zhao, Xinhua (2010). Integration of USEPA WASP model in a GIS platform. Journal of Zhejiang University-SCIENCE A, 11 (12), 1015-1024. DOI: 10.1631/jzus.A1000244 (Impact Factor: 1.215).
* Tian, Yimei, **Fu, George Yuzhu**, Chi, Haiyan and Liu, Ye. (2007). Optimal operation of water distribution networks under local pipeline failures. Journal of Central South University of Technology, China, Volume 14, No. 3, 436-441 (Impact Factor: 0.33).
* **Fu, Yuzhu** and Viraraghavan, T. (2003). Column studies for biosorption of dyes from aqueous solutions on immobilized *Aspergillus niger* fungal biomass. Water SA, Volume 29, No. 4, 465-472 (2008 Impact Factor: 0.721).
* **Fu, Yuzhu** and Viraraghavan, T. (2002). Removal of Congo Red from an aqueous solution by fungus *Aspergillus niger*. Advances in Environmental Research, Volume 7, 239-247 (2004 Impact Factor: 2.08).
* **Fu, Yuzhu** and Viraraghavan, T. (2002). Dye biosorption sites in *Aspergillus niger.* Bioresource Technology, Volume 82, 139-145 (Impact Factor: 5.65).
* **Fu, Yuzhu** and Viraraghavan, T. (2001). Removal of C.I. Acid Blue 29 from an aqueous solution by *Aspergillus niger*. American Association of Textile Chemists and Colorists (AATCC) Review (Former American Dyestuff Reporter), Volume 1, No. 1, 36-40 (2017-2018 Impact Factor: 0.333).
* **Fu, Yuzhu** and Viraraghavan, T. (2001). Fungi decolorization of dye wastewaters: a review. Bioresource Technology, Volume 79, 251-262 (Impact Factor: 5.65) **(The number of citations is over 1,169 as of 7/25/2018).**
* **Fu, Yuzhu** and Viraraghavan, T. (2000). Removal of a dye from an aqueous solution by fungus *Aspergillus niger*. Water Qual. Res. J. Canada, Volume 35, No. 1, 95-111 (Impact Factor: 0.444).

**18 Papers in Conference Proceedings**

* **Fu, George Yuzhu**, and Rahman, Md Azizur (2019) Removal of Contaminants of Emerging Concern (CECs) from Secondary Biologically Treated Wastewater Effluent Using Biofilters of Granular Activated Carbon (GAC). 2019 American Water Works Association (AWWA) Annual Conference & Exposition (ACE) Conference Proceedings, June 9 – 12, 2019, Denver, CO.
* **Fu, George Yuzhu**, and Salahin, Musfiques (2018) Batch Studies on Color Removal from Pulp Mill Effluent Using Coal Fly Ash Produced from Georgia Coal-Burning Power Plants, WEFTECC 1430\_Fu\_1059, WEFTEC 2018, New Orleans, LA, September 29 - October 3, 2018.
* **Fu, George Yuzhu**, and Salahin, Musfiques (2018) Removal of Color, Chemical Oxygen Demand, and Total Organic Carbon from Pulp Mill Effluents Simultaneously Using Coal Fly Ash Produced from Coal Combustion Power Plants, ACCMES-0074, 181-192, ACCMES 2018, Tokyo, Japan, July10-12, 2018.
* Maghiar, Marcel, **Fu, George, Yuzhu** (2015) Framework for expanding BIM adoption within the taught curriculum. Proceedings of the 9th BIM Academic Symposium, NIBS buildingSMARTalliance -Washington, D.C., April 7-8, 2015.
* Rogers, Peter, Walker, Laura, **Fu, George**, and Frischer, Marc (2015) Bacteria Source Tracking Shapes a Holistic Watershed Management Plan. American Water Works Association (AWWA) – Opflow. 41(5) 18-21 (Opflow is the water industry’s most popular resource on operations issues, and the award-winning monthly magazine by AWWA.
* **Fu, George Yuzhu**, and Rogers, Peter. (2014). Removal of total organic carbon (TOC)/dissolved organic carbon (DOC) and Trihalomethane Formation Potentials (THMFPs) from Surface Water Using PreBiofilters. 2014 American Water Works Association AWWA ACE2014 Conference Proceedings, June 8 – 12, Boston, Massachusetts.
* Rogers, Peter, Laura Walker, and **Fu, George Yuzhu**. (2014). The Impact Of Bacteria Source Tracking On The Development Of A Holistic Watershed Management Plan For The Vernon River Basin. 2014 American Water Works Association AWWA ACE2014 Conference Proceedings, June 8 – 12, Boston, Massachusetts.
* Waters, Andrew, Vail, Taylor, Ursy, Mathew, Sualevai, Abel, Scott, Allan and **Fu, George Yuzhu**. (2014). Color Removal from Pulp Mill Effluent Using Coal Ash Produced from Georgia Coal Combustion Power Plants. The second annual Georgia Undergraduate Research Conference Proceedings, January 24-25, 2014 at Columbus State University in Columbus, Georgia.
* Abedini, Ali. R., Atwater, James W. and **Fu, George Yuzhu**. (2012). Effects of Recycling Activities on Waste Disposal Options: Case Study of the Metro Vancouver, British Columbia, Canada. Proceedings of The International Solid Waste Association (ISWA) World Congress 2012, September 17-19, Florence, Italy.
* **Fu, George Yuzhu** and Wu, Tiehang. (2012). Study on Removal of Color and Disinfection By-Product Precursors from Surface Waters Using PreBiofilters. Proceedings of the International Conference on Engineering and Applied Science, July 24-27, Beijing, China.
* **Fu, George Yuzhu**, Hammerstein, Heidi , Work, Paul A., Peng, Sen and Kreller, David (2010). Removal of turbidity and color from surface water using PreBio granular activated carbon filter (PreBioGACF) for coastal municipal and industrial use. Proceedings of Water Quality Technology Conference and Exposition (WQTC) for AWWA, November 14-17, Savannah, GA, USA. It was presented at the Conference.
* Grainger, Sarah, **Fu, George Yuzhu** and Hall, Eric (2006). An adsorption alternative – biosorption using *Aspergillus Niger* fungal biomass. Proceedings of 60th Western Canada Water and Wastewater Association (WCWWA) Conference and Trade Show, September 23-26, Regina, SK, Canada.
* **Fu, George Yuzhu** and Engman, Randy W. (2004). Training in the operation of bench scale mesophilic anaerobic digesters at OUC. Proceedings of 10th World Congress – Anaerobic Digestion, August 29 – September 2, 2004, Centre Mon-Royal, Montreal, Canada, Volume 4, 2033-2036.
* **Fu, Yuzhu** and Viraraghavan, T. (2004). Endocrine disruptors and water quality. Proceedings of 1st Water and Environment Specialty Conference of the 32nd Annual Conference of the Canadian Society for Civil Engineering (CSCE), June 2-5, 2004, Saskatoon, SK, Canada.
* Engman, Randy W., **Fu, George Yuzhu** and Swindon, Rebekah (2003). Training in the operation of mesophilic anaerobic sludge reactors. Proceedings of the 2nd Canadian Organics Residuals Recycling Conference, April 24th-25th, Penticton, BC, Canada.
* **Fu, Yuzhu** and Viraraghavan, T. (1999). Removal of C.I. Acid Blue 29 from an aqueous solution by *Aspergillus niger*. Proceedings of the 31st Mid-Atlantic Industrial and Hazardous Waste Conference, USA, June 20-23, 1999, 510-519.
* **Fu, Yuzhu** (1993). Experimental study on the removal of nitrogen from the high strength wastewater using A/O process. Proceedings of third symposium of Removal of Phosphorus and Nitrogen Society, China Civil Engineering Society (CCES), China.
* **Fu, Yuzhu** (1993). Study on optimal design of sanitary and storm sewer networks. Proceedings of the second symposium of Water & Wastewater Society, CCES, October 1993, Nannig, Guangxi Zhuang Autonomy, China.

**Conference Presentations (Presenter Is Highlighted)**

* **Fu, George Yuzhu**, and Rahman, Md Azizur (2019) Removal of Contaminants of Emerging Concern (CECs) from Secondary Biologically Treated Wastewater Effluent Using Biofilters of Granular Activated Carbon (GAC). 2019 AWWA ACE19, June 9 – 12, 2019, Denver, CO.
* **Fu, George Yuzhu**, and Salahin, Musfiques (2018) Batch Studies on Color Removal from Pulp Mill Effluent Using Coal Fly Ash Produced from Georgia Coal-Burning Power Plants, WEFTECC 1430\_Fu\_1059, WEFTEC 2018, New Orleans, LA, September 29 - October 3, 2018.
* **Fu, George Yuzhu**, and Salahin, Musfiques (2018) Removal of Color, Chemical Oxygen Demand, and Total Organic Carbon from Pulp Mill Effluents Simultaneously Using Coal Fly Ash Produced from Coal Combustion Power Plants, ACCMES-0074, 181-192, ACCMES 2018, Tokyo, Japan, July10-12, 2018.
* **Maghiar, Marcel**, Fu, George, Yuzhu (2015) Framework for expanding BIM adoption within the taught curriculum. The 9th BIM Academic Symposium, NIBS buildingSMARTalliance -Washington, D.C., April 7-8, 2015.
* **Waters, Andrew, Vail, Taylor, Ursy, Mathew, Sualevai, Abel, Scott, Allan** and Fu, George Yuzhu (2014) Color Removal from Pulp Mill Effluent Using Coal Ash Produced from Georgia Coal Combustion Power Plants. The second annual Georgia Undergraduate Research Conference, January 24-25, 2014 at Columbus State University in Columbus, Georgia. These five CE Seniors won the Best Paper Presentation.
* **Fu, George Yuzhu** (2014) Color Removal from Pulp Mill Effluent Using Coal Ash Produced from Georgia Coal Combustion Power Plants. GSU Research Symposium, Statesboro, Georgia, April 15, 2014.
* **Rogers, Peter** and Fu, George Yuzhu Survey of Well Water Quality in Statesboro and Bulloch County”. GSU Research Symposium, Statesboro, Georgia, April 15, 2014.
* **Fu, George Yuzhu** and Rogers, Peter (2014) Removal of Total Organic Carbon (TOC)/Dissolved Organic Carbon (DOC) and Trihalomethane Formation Potentials (THMFPs) from Surface Water using PreBiofilters. 2014 American Water Works Association (AWWA) Annual Conference & Exposition (ACE) in Boston, Massachusetts, June 8 – 12, 2014.
* **Rogers, Peter**, Walker, Laura, and Fu, George Yuzhu (2014) The Impact of Bacteria Source Tracking on the Development of a Holistic Watershed Management Plan for The Vernon River Basin. 2014 AWWA ACE in Boston, Massachusetts, June 8 – 12, 2014.
* **Rogers, Peter**, Walker, Laura, and Fu, George Yuzhu (2014) Management of the Vernon River Watershed for the Reduction of Nonpoint Human Sources of Bacteria. Georgia Chapter of the Water Resources Association and Georgia Association of Water Professionals joint Stormwater and Watershed Specialty Conference. Atlanta, Georgia, June 24, 2014.
* **Rogers, Peter**, Strickland, Zach, and Fu, George Yuzhu Bacteria Source Tracking through the Detection of Optical Brighteners using Flourometry: Lessons from the Vernon River Basin. Georgia Association of Water Professionals Annual Conference, Savannah, Georgia, July 22, 2014.
* **Fu, George Yuzhu** and Wu, Tiehang. (2012). Study on Removal of Color and Disinfection By-Product Precursors from Surface Waters Using PreBiofilters. The International Conference on Engineering and Applied Science, July 24-27, Beijing, China.
* **Abedini, Ali. R.**, Atwater, James W. and Fu, George Yuzhu. (2012). Effects of Recycling Activities on Waste Disposal Options: Case Study of the Metro Vancouver, British Columbia, Canada. The International Solid Waste Association (ISWA) World Congress 2012, September 17-19, Florence, Italy.
* **Fu, George Yuzhu**, Hammerstein, Heidi , Work, Paul A., Peng, Sen and Kreller, David (2010) Removal of turbidity and color from surface water using PreBio granular activated carbon filter (PreBioGACF) for coastal municipal and industrial use. Water Quality Technology Conference and Exposition (WQTC) for AWWA, Savannah, GA, USA.
* **Fu, George Yuzhu** and Viraraghavan, T. (2004) Endocrine disruptors and water quality. 1st Water and Environment Specialty Conference of the 32nd Annual Conference of CSCE, Saskatoon, SK, Canada.
* **Fu, George Yuzhu** and Viraraghavan, T. (1999) Removal of a dye from an aqueous solution by fungus *Aspergillus niger*. 34th Central Canadian Symposium, Canada Center for Inland Waters, Burlington, Ontario.
* **Fu, Yuzhu** and Wang, Xunjina (1993) Study on optimal design of sanitary and storm sewer networks. The 2nd symposium of Water & Wastewater Society, CCES, Nanning, Guganxi China.

#### **Academic Experience**

2019 – Present **Professor**

Water and Environmental Engineering

Program of Civil Engineering (CE)

Department of Civil Engineering and Construction (CEC)

Allen E. Paulson College of Engineering and Computing

Georgia Southern University (GSU), Statesboro, GA, USA.

2012 – 2019 **Associate Professor**

Water and Environmental Engineering

Program of Civil Engineering (CE)

Department of Civil Engineering and Construction (CEC)

Allen E. Paulson College of Engineering and Computing

Georgia Southern University (GSU), Statesboro, GA, USA.

2008 – 2012 **Assistant Professor**

Water and Environmental Engineering

Program of Civil Engineering Technology (CET)

Department of Construction Management and Civil Engineering/Technology (CMCE/T)

[Allen E. Paulson College of Science and Technology](http://cit.georgiasouthern.edu/) (COST)

GSU, Statesboro, GA, USA.

2005 – 2012  **Adjunct Professor**

**Department of Civil Engineering**

**University of British Columbia (UBC), Vancouver, BC, Canada**

2002 – 2008 **Assistant Professor**

Department of Water Quality and Environmental Engineering Technology (WQEET)

Faculty of Sciences, Engineering Technologies

Okanagan College (OC), former Okanagan University College (OUC), Kelowna, BC, Canada

#### **Non-Academic Experience**

2007 **Lead On-Site QC/QA Coordinator**

WRB Bridge Group,

SNC-Lavalin INC.

Kelowna, BC, Canada

2000 – 2002 **Municipal/Environmental Engineer**

UMA Engineering Ltd. (currently a part of AECOM)

Regina, SK, Canada

1989 –1996 **Environmental Engineer**

North China Municipal Engineering Design & Research Institute Tianjin, China

#### **Affiliations**

Member ofEngineers & Geoscientists of British Columbia (EGBC).

Member of American Water Works Association (AWWA).

Member of Water Environment Federation (WEF).

Member of Georgia Association of Water Professionals.

Member of Chinese-American Professors in Environmental Engineering

and Science (CAPEES)

**Invited Speaker**

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2018 Water and Environmental Research Done by Dr. Fu at GSU for

the School of Environmental Science & Engineering, Tianjin University, China.

2012 Interdisciplinary Study on Removal of Color and Disinfection By

Product Precursors from Surface Waters Using PreBiofilters. Invited speaker for School of Environmental Science and Engineering at Tianjin University, China.

2009 Water and Environment in North America. Invited speaker for

School of Environmental Science and Engineering at Tianjin University, China, and Tianjin Polytechnic University, China, respectively.

2004 Water and Environment in the Okanagan Region. Invited seminar

for the Department of Civil Engineering, UBC Vancouver.

2004 Water and Environment. Physical Science/Applied Science

Research Workshop at OUC.

#### **Refereeing Activities on Scholarly Publications**

2000 - Present Reviewer for a number of top 13 national and international academic journals including:

* Biodegradation
* Bioresource
* Bioresource Technology
* CLEAN - Soil, Air, Water
* Frontiers of Environmental Science and Engineering (FESE)
* Journal of Desalination and Water Treatment
* Journal of Environmental Sciences of China
* Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management of ASCE
* Science of the Total Environment
* Separation and Purification Technology
* Water, Air, & Soil Pollution
* Water International (the official Journal of International Water Resources Association)
* Water Quality Research Journal of Canada

2014 and 2016 Reviewer for proposals submitted to the National Institutes for

Water Resource (NIWR)-USGS National Competitive Grants

Program.

2014 and 2011 Invited External Examiner for the two (2) oral defenses of Doctoral candidates, from Faculty of Engineering & Applied Science, University of Regina, Canada.

2008 Reviewer for Proposal submitted to Canadian Foundation for

Climate and Atmospheric Sciences (CFCAS)

2007 Reviewer for the new non-degree program proposal for the

Thompson Rivers University (TRU).

2005 Reviewer for the full program proposal – Masters Program in

Environmental Studies for the TRU.

2003 Reviewer for proposal submitted to NSERC Discovery Grants –

Individual.