Ronald J. Yurko, Jr.

RESEARCH NTERESTS COUCATION Carnegie Mellon University, Pittsburgh, PA B.S., Statistics, Dec 2015 (University Honors) Carnegie Mellon University, Pittsburgh, PA B.S., Statistics, Dec 2015 (University Honors) Carnegie Mellon University Department of Statistics, Carnegie Mellon University Undergraduate Research Assistant PREDS: Prediction with Ensembles using Distribution Summaries Supervisors: Samuel L. Ventura, Ph.D and Rebecca Nugent, Ph.D Undergraduate Research Course Classifying Kepler Objects of Interest Supervisors: Rebecca Nugent, Ph.D and Peter E. Freeman, Ph.D Independent Research Undergraduate Research Supervisors: Rebecca Nugent, Ph.D and Peter E. Freeman, Ph.D Independent Research Supervisors: Andrew C. Thomas, Ph.D PAPERS IN PROGRESS Dietrich Undergraduate Colloquium (Pittsburgh, PA) Dietrich Undergraduate Colloquium (Pittsburgh, PA) Dietrich Undergraduate Colloquium (Pittsburgh, PA) May 6, 2015 Improving Predictions of Ensemble Methods Using Distributions of Estimated Probabilities Meeting of the Minds (Pittsburgh, PA) Classifying Kepler Objects of Interest NORK Analytics & Portfolio Management, PNC Financial Services Pittsburgh, PA Quantitative Analytics Associate Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS Risk Management Intern Model Development Predicting Probability of Default and Loss Given Default Model Development Predicting Probability of Default and Loss Given Default		,		
Computational statistics, ensemble methods, dimension reduction, clustering NTERESTS COUCATION Carnegie Mellon University, Pittsburgh, PA B.S., Statistics, Dec 2015 (University Honors) CARSEARCH CXPERIENCE Department of Statistics, Carnegie Mellon University Undergraduate Research Assistant • PREDS: Prediction with Ensembles using Distribution Summaries • Supervisors: Samuel L. Ventura, Ph.D and Rebecca Nugent, Ph.D Undergraduate Research Course • Classifying Kepler Objects of Interest • Supervisors: Rebecca Nugent, Ph.D and Peter E. Freeman, Ph.D Independent Research • The Science of Fooling Batters: An Objective Analysis of Pitch Sequencing • Supervisor: Andrew C. Thomas, Ph.D PAPERS IN VENTURA, S.L., NUGENT, R., AND YURKO, R., (2016), "PREDS: Prediction with Ensembles using Distribution Summaries." Under Review. POSTER Dietrich Undergraduate Colloquium (Pittsburgh, PA) Improving Predictions of Ensemble Methods Using Distributions of Estimated Probabilities Meeting of the Minds (Pittsburgh, PA) Classifying Kepler Objects of Interest Analytics & Portfolio Management, PNC Financial Services Pittsburgh, PA Quantitative Analytics Associate • Model Development Predicting Probability of Default and Loss Given Default • Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS Risk Management Intern • Model Development Predicting Probability of Default and Loss Given Default • Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS	CONTACT			
Carnegie Mellon University, Pittsburgh, PA B.S., Statistics, Dec 2015 (University Honors) GPA: 3.97/4.00 RESEARCH CXPERIENCE Department of Statistics, Carnegie Mellon University Undergraduate Research Assistant • PREDS: Prediction with Ensembles using Distribution Summaries • Supervisors: Samuel L. Ventura, Ph.D and Rebecca Nugent, Ph.D Undergraduate Research Course • Classifying Kepler Objects of Interest • Supervisors: Rebecca Nugent, Ph.D and Peter E. Freeman, Ph.D Independent Research • The Science of Fooling Batters: An Objective Analysis of Pitch Sequencing • Supervisor: Andrew C. Thomas, Ph.D PAPERS IN VENTURA, S.L., NUGENT, R., AND YURKO, R., (2016), "PREDS: Prediction with Ensembles using Distribution Summaries." Under Review. POSTER Dietrich Undergraduate Colloquium (Pittsburgh, PA) Improving Predictions of Ensemble Methods Using Distributions of Estimated Probabilities Meeting of the Minds (Pittsburgh, PA) Classifying Kepler Objects of Interest Analytics & Portfolio Management, PNC Financial Services • Model Development Predicting Probability of Default and Loss Given Default • Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS Risk Management Intern • Model Development Predicting Probability of Default and Loss Given Default • Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS	INFORMATION	ITWIII, PA 13042	ryurko21@gman.com	
B.S., Statistics, Dec 2015 (University Honors) GPA: 3.97/4.00 Department of Statistics, Carnegie Mellon University Undergraduate Research Assistant PREDS: Prediction with Ensembles using Distribution Summaries Supervisors: Samuel L. Ventura, Ph.D and Rebecca Nugent, Ph.D Undergraduate Research Course Classifying Kepler Objects of Interest Classifying Kepler Objects of Interest Classifying Kepler Objects of Interest Undergraduate Research Classifying Kepler Objects of Interest Classifying Kepler Objects of Interest Undergraduate Research Classifying Kepler Objects of Interest Undergraduate Research Classifying Kepler Objects of Interest Undergraduate Research Undergraduate Research Undergraduate Colloquium (Pittsburgh Analysis of Pitch Sequencing Supervisor: Andrew C. Thomas, Ph.D PRESENTATIONS Untura, S.L., Nugent, R., and Yurko, R., (2016), "PREDS: Prediction with Ensembles using Distribution Summaries." Under Review. Under Review. Dietrich Undergraduate Colloquium (Pittsburgh, PA) Improving Predictions of Ensemble Methods Using Distributions of Estimated Probabilities Meeting of the Minds (Pittsburgh, PA) Classifying Kepler Objects of Interest Work Analytics & Portfolio Management, PNC Financial Services Pittsburgh, PA Quantitative Analytics Associate Jan 2016 to Present Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS Risk Management Intern Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS	RESEARCH INTERESTS	Computational statistics, ensemble methods, dimension reduction, clustering		
Department of Statistics, Carnegie Mellon University Undergraduate Research Assistant PREDS: Prediction with Ensembles using Distribution Summaries Supervisors: Samuel L. Ventura, Ph.D and Rebecca Nugent, Ph.D Undergraduate Research Course Classifying Kepler Objects of Interest Supervisors: Rebecca Nugent, Ph.D and Peter E. Freeman, Ph.D Independent Research The Science of Fooling Batters: An Objective Analysis of Pitch Sequencing Supervisor: Andrew C. Thomas, Ph.D VENTURA, S.L., NUGENT, R., AND YURKO, R., (2016), "PREDS: Prediction with Ensembles using Distribution Summaries." Under Review. PROGRESS Dietrich Undergraduate Colloquium (Pittsburgh, PA) Improving Predictions of Ensemble Methods Using Distributions of Estimated Probabilities Meeting of the Minds (Pittsburgh, PA) Classifying Kepler Objects of Interest WORK EXPERIENCE WORK Analytics & Portfolio Management, PNC Financial Services Pittsburgh, PA Quantitative Analytics Associate Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS Risk Management Intern Jun 2015 to Dec 2015 Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS	EDUCATION	Carnegie Mellon University, Pittsburgh, PA		
Undergraduate Research Assistant PREDS: Prediction with Ensembles using Distribution Summaries Supervisors: Samuel L. Ventura, Ph.D and Rebecca Nugent, Ph.D Undergraduate Research Course Classifying Kepler Objects of Interest Supervisors: Rebecca Nugent, Ph.D and Peter E. Freeman, Ph.D Independent Research The Science of Fooling Batters: An Objective Analysis of Pitch Sequencing Supervisor: Andrew C. Thomas, Ph.D PROGRESS PRESENTATIONS Dietrich Undergraduate Colloquium (Pittsburgh, PA) Improving Predictions of Ensemble Methods Using Distributions of Estimated Probabilities Meeting of the Minds (Pittsburgh, PA) Classifying Kepler Objects of Interest Work EXPERIENCE WORK Analytics & Portfolio Management, PNC Financial Services Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS Risk Management Intern Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS		B.S., Statistics, Dec 2015 (University Honors)	GPA: 3.97/4.00	
Undergraduate Research Assistant PREDS: Prediction with Ensembles using Distribution Summaries Supervisors: Samuel L. Ventura, Ph.D and Rebecca Nugent, Ph.D Undergraduate Research Course Classifying Kepler Objects of Interest Supervisors: Rebecca Nugent, Ph.D and Peter E. Freeman, Ph.D Independent Research The Science of Fooling Batters: An Objective Analysis of Pitch Sequencing Supervisor: Andrew C. Thomas, Ph.D VENTURA, S.L., NUGENT, R., AND YURKO, R., (2016), "PREDS: Prediction with Ensembles using Distribution Summaries." Under Review. POSTER Dietrich Undergraduate Colloquium (Pittsburgh, PA) Dietrich Undergraduate Colloquium (Pittsburgh, PA) Meeting of the Minds (Pittsburgh, PA) Classifying Kepler Objects of Interest WORK EXPERIENCE Analytics & Portfolio Management, PNC Financial Services Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS Risk Management Intern Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS	RESEARCH EXPERIENCE	Department of Statistics, Carnegie Mellon University	Pittsburgh, PA	
• Supervisors: Samuel L. Ventura, Ph.D and Rebecca Nugent, Ph.D Undergraduate Research Course • Classifying Kepler Objects of Interest • Supervisors: Rebecca Nugent, Ph.D and Peter E. Freeman, Ph.D Independent Research • The Science of Fooling Batters: An Objective Analysis of Pitch Sequencing • Supervisor: Andrew C. Thomas, Ph.D PAPERS IN VENTURA, S.L., NUGENT, R., AND YURKO, R., (2016), "PREDS: Prediction with Ensembles using Distribution Summaries." Under Review. POSTER Dietrich Undergraduate Colloquium (Pittsburgh, PA) Improving Predictions of Ensemble Methods Using Distributions of Estimated Probabilities Meeting of the Minds (Pittsburgh, PA) Classifying Kepler Objects of Interest WORK EXPERIENCE WORK Analytics & Portfolio Management, PNC Financial Services • Model Development Predicting Probability of Default and Loss Given Default • Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS Risk Management Intern • Model Development Predicting Probability of Default and Loss Given Default • Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS		Undergraduate Research Assistant	Aug 2015 to Dec 2015	
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The Science of Fooling Batters: An Objective Analysis of Pitch Sequencing Supervisor: Andrew C. Thomas, Ph.D PAPERS IN PROGRESS VENTURA, S.L., NUGENT, R., AND YURKO, R., (2016), "PREDS: Prediction with Ensembles using Distribution Summaries." Under Review. Dietrich Undergraduate Colloquium (Pittsburgh, PA) Improving Predictions of Ensemble Methods Using Distributions of Estimated Probabilities Meeting of the Minds (Pittsburgh, PA) Classifying Kepler Objects of Interest Analytics & Portfolio Management, PNC Financial Services Quantitative Analytics Associate Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS Risk Management Intern Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS		· · · ·		
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PROGRESS Ensembles using Distribution Summaries." Under Review. Dietrich Undergraduate Colloquium (Pittsburgh, PA) Nov 6, 2015 Improving Predictions of Ensemble Methods Using Distributions of Estimated Probabilities Meeting of the Minds (Pittsburgh, PA) May 6, 2015 Classifying Kepler Objects of Interest WORK EXPERIENCE Analytics & Portfolio Management, PNC Financial Services Pittsburgh, PA Quantitative Analytics Associate Jan 2016 to Present • Model Development Predicting Probability of Default and Loss Given Default • Preliminary methodology research, data extraction and manipulation, documentation preparation, and statistical modeling in R and SAS Risk Management Intern Jun 2015 to Dec 2015 • Model Development Predicting Probability of Default and Loss Given Default • Preliminary methodology research, data extraction and manipulation, documentation preparation, and statistical modeling in R and SAS		• The Science of Fooling Batters: An Objective Analysis of Pitch Sequencing		
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Classifying Kepler Objects of Interest NORK EXPERIENCE Analytics & Portfolio Management, PNC Financial Services Pittsburgh, PA Quantitative Analytics Associate • Model Development Predicting Probability of Default and Loss Given Default • Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS Risk Management Intern • Model Development Predicting Probability of Default and Loss Given Default • Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS	POSTER PRESENTATIONS	- ' '		
Quantitative Analytics Associate • Model Development Predicting Probability of Default and Loss Given Default • Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS Risk Management Intern Jun 2015 to Dec 2015 • Model Development Predicting Probability of Default and Loss Given Default • Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS		· ,	May 6, 2015	
 Quantitative Analytics Associate Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS Risk Management Intern Jun 2015 to Dec 2015 Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS 	Work Experience	Analytics & Portfolio Management, PNC Financial Services Pittsburgh, PA		
 Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentation preparation, and statistical modeling in R and SAS Risk Management Intern Jun 2015 to Dec 2015 Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentation preparation, and statistical modeling in R and SAS 		Quantitative Analytics Associate	Jan 2016 to Present	
 Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentation preparation, and statistical modeling in R and SAS 		 Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentation 		
 Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentatio preparation, and statistical modeling in R and SAS 		Risk Management Intern	Jun 2015 to Dec 2015	
Baseball Operations, Pittsburgh Pirates Pittsburgh, PA		 Model Development Predicting Probability of Default and Loss Given Default Preliminary methodology research, data extraction and manipulation, documentation 		
		Baseball Operations, Pittsburgh Pirates	Pittsburgh, PA	

Data and Analytics Intern

Mar 2014 to Oct 2014

- Pitcher "Injury Zone" Analysis and Data Management
- $\bullet\,$ Ensure loading of data, distribute organizational reports, developed neural network and hazard model for assessing elbow injury risk

TEACHING EXPERIENCE

Carnegie Mellon University, Pittsburgh, PA

Instructor

Spring 2015 & Fall 2015

- Course: Introduction to Sabermetrics & Exploring Baseball Data
- Lectured and created course materials

Grader

Spring 2015 & Fall 2015

• Courses: Introduction to Statistical Inference, Introduction to Probability Theory

Teaching Assistant

Fall 2013 to Fall 2014

- Course: Statistical Reasoning and Practice
- Assist students in Minitab lab sessions, grade homeworks and exams

Honors and Awards

Honors

Andrew Carnegie Society Scholar Carnegie Mellon University 2015

Phi Kappa Phi Honor Society

2015

Carnegie Mellon University

Honors courses: Mathematical Statistics Honors, Undergraduate Research Course Department of Statistics, Carnegie Mellon University

Awards and Academic Competitions

First Prize, Statistics Poster Competition
Meeting of the Minds, Carnegie Mellon University

2015

UNIVERSITY ORGANIZATIONS

Tartan Sports Analytics Club

Co-Founder, Vice President, Editor, and Writer

2013 to 2016

Student-run sports statistics club

Selected articles:

- The Principal Components of Pitching: 2015 Introduction
- Josh Harrison: Fooled by Randomness?

Memberships

American Statistical Association

Society for American Baseball Research

COMPUTING SKILLS

Programming Languages: R, SAS, Python, SQL, LATEX

Operating Systems: MacOS, Windows

ACTIVITIES

Carnegie Mellon University Club Baseball Team

2013

Carnegie Mellon University Intramural Sports:

Basketball Softball

References

Available upon request