

## APPENDIX 1

### i-Tree Staff and Collaborators

The following list of people have worked on i-Tree or predecessor programs (UFORE and STRATUM). The list also includes their affiliation, an estimate of the period of involvement, and a brief description of their role. Many people have contributed to these programs; any omissions from the list are accidental. Davey Institute, listed in the affiliations below, is a division of the Davey Tree Expert Company; Davey Institute employees are funded through a cost-share with the USDA Forest Service. Affiliations of Davey Tree refer to The Davey Tree Expert Company. SUNY-ESF refers to State University of New York, College of Environmental Science and Forestry in Syracuse, NY.

#### 1980s

**David J. Nowak, USDA Forest Service** (1988–current)—i-Tree Team Leader; UFORE/i-Tree Eco model origination and development; originator of several i-Tree tools and methods.

**Rowan A. Rowntree, USDA Forest Service** (1988–1997)—UFORE development advisor

#### 1990s

**Jim Baldwin, USDA Forest Service** (1990–1991)—statistical advisor

**Lee Philbin, USDA Forest Service** (1991–2000)—administrative support

**Jerry Walton, USDA Forest Service** (1991–1996)—statistical advisor

**Una Wiegand, USDA Forest Service** (1994–2017)—administrative support

**Dennis Baldocchi, Oak Ridge National Lab** (1995)—developer of big-leaf, multi-hybrid model code that was adapted and integrated within UFORE

**Bhesh Dimala, SUNY-ESF** (1995–1996)—UFORE development

**Chris Luley, ACRT and Davey Tree** (1995–2002)—collaborator in UFORE development

**Pat McHale, USDA Forest Service** (1995–1996)—UFORE model development

**Daniel E. Crane, USDA Forest Service** (1996–current)—UFORE/i-Tree Eco model development

**David Randall, USDA Forest Service** (1996–2004)—statistical advisor

**Jack Stevens, USDA Forest Service** (1996–2011)—i-Tree science development and support

**Myriam Ibarra, SUNY-ESF** (1997–1998)—UFORE testing and development

**Jerry Bond, Davey Tree** (1998–2002)—collaborator in UFORE development

**Greg McPherson, USDA Forest Service** (1998–2010)—lead STRATUM developer

**Klaus Scott, USDA Forest Service, California Air Resources Board** (1998–2001)—STRATUM model development

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Appendix 1 in: Nowak, David J. 2020. **Understanding i-Tree: Summary of programs and methods**. General Technical Report NRS-200. Madison, WI: U.S. Department of Agriculture, Forest Service, Northern Research Station. <https://doi.org/10.2737/NRS-GTR-200-Appendix1>

**Paula Peper, USDA Forest Service** (1998–2010)—lead biometrician for STRATUM modeling

**James Simpson, USDA Forest Service** (1998–2010)—STRATUM modeling, energy effects research

**Qingfu Xiao, USDA Forest Service, UC Davis** (1998–2010)—STRATUM modeling, rainfall interception research

### **2000s**

**Gordon Heisler, USDA Forest Service** (2000–2013)—development of temperature, UV radiation, and human comfort models

**Scott Maco, USDA Forest Service, Davey Institute** (2000–current)—i-Tree Streets development; i-Tree project lead

**James Ho, USDA Forest Service** (2001–2004)—STRATUM development

**Thomas Mutton, USDA Forest Service** (2001–2005)—STRATUM development

**Francisco Escobedo, USDA Forest Service** (2002–2004)—i-Tree Eco development and testing

**Shelley Gardner, USDA Forest Service** (2002–2004)—STRATUM development

**Jeffrey Walton, USDA Forest Service,** (2002–2007)—i-Tree Canopy development and program science development

**Jaewon Choi, SUNY-ESF** (2003–2004)—UFORE development

**Robert Hoehn, USDA Forest Service** (2003–current)—UFORE/i-Tree Eco development and project support

**Jesse Hoekstra, USDA Forest Service** (2003–2005)—STRATUM development

**Ted Endreny, SUNY-ESF** (2004–current)— i-Tree Hydro and i-Tree Cool development

**Greg Ina, Davey Institute** (2004–2014)—i-Tree project lead

**Kelaine Vargas, USDA Forest Service** (2004–2007)—STRATUM development

**Jun Wang, SUNY-ESF** (2004–2008)—original developer of i-Tree Hydro code

**Mike Binkley, Davey Institute** (2005–current)—i-Tree project management and software development of numerous i-Tree tools

**Latif Kaya, SUNY-ESF** (2005–2006)—i-Tree Eco database development

**Shaun O'Rourke, SUNY-ESF** (2005–2006)—i-Tree data processing and testing

**John Stanovick, USDA Forest Service** (2004–current)—statistical advisor

**Lianghu Tian, Davey Institute** (2005–current)—software development of numerous i-Tree tools

**Judy Zhu, Davey Institute** (2005–2006)— i-Tree Eco software development

**David Bloniarz, USDA Forest Service** (2006–current)—i-Tree Storm and MCTI developer, i-Tree videos and webinars, i-Tree.edu

**Don Lipscomb, Clemson University** (2006–2007)—prototype plot generator in Eco

**Mark Buscaino, USDA Forest Service and Casey Trees** (2006–current)—i-Tree Executive Team

**Keith Cline, USDA Forest Service** (2006–2014)—i-Tree Executive Team

**Dan Lambe, Arbor Day Foundation** (2006–current)—i-Tree Executive Team

**Jerri LaHaie, Society of Municipal Arborists** (2006–current)—i-Tree Executive Team

**Chris Post, Clemson University** (2006–2007)—prototype plot generator in i-Tree Eco

**H. Dennis Ryan, University of Massachusetts** (2006–2008)—collaborator on i-Tree Storm and MCTI development

**Mary Ann Schaefer, Davey Institute** (2006–current)—administrative support

**Jim Skiera, International Society of Arboriculture** (2006–2017)—i-Tree Executive Team

**Susan Wright, USDA Forest Service** (2006–current)—i-Tree report development

**Shannon Albers, USDA Forest Service** (2007–2010)—STRATUM development

**Alexis Ellis, USDA Forest Service, Davey Institute** (2007–current)—software development and database management of numerous i-Tree tools

**Eric Greenfield, USDA Forest Service** (2007–current)—spatial database development

**Satoshi Hirabayashi, SUNY-ESF, Davey Institute** (2007–current)—software architect and development of numerous i-Tree tools

**Michael Kerr, Davey Institute** (2007–2015)—i-Tree Hydro and Eco software development

**Andy Lee, USDA Forest Service** (2007–2008)—i-Tree Hydro testing

**Paul Lilly, SUNY-ESF** (2007–2008)—i-Tree species data development

**Bob Sacks, BlueJay Software** (2007–2008)—MCTI and i-Tree PDA data collector

**Nathan Edberg, USDA Forest Service** (2008–2017)—invasive pest data

**David Ellingsworth, Davey Institute** (2008–current)—software development of numerous i-Tree tools

**Frank Krist, USDA Forest Service** (2008–current)—invasive pest data

**Chuck Kroll, SUNY-ESF** (2008–current)—i-Tree optimization and testing

**Tim Porter, SUNY-ESF** (2008–2009)—i-Tree data processing

**Chris Sorrentino, USDA Forest Service** (2008–2010)—i-Tree Eco development

**Al Zelaya, Davey Institute** (2008–current)—i-Tree technical support

**Robert Bridges, USDA Forest Service (retired)** (2009–2010)—allometric equations

**Carlo Calfapietra, Institute of Agro-Environmental & Forest Biology National Research Council** (2009–current)—i-Tree Eco development and testing

**Arianna Morani, Institute of Agro-Environmental & Forest Biology National Research Council** (2009–2015)—i-Tree Eco development and testing

**Sanyam Chaudhary, Syracuse University** (2009–2010)—i-Tree Hydro code development and documentation

### **2010s**

**Maria Cabaraban, SUNY-ESF** (2010–2013)—testing of i-Tree programs

**Craig Hallam, ENSPEC** (2010–2012)—collaborator and co-funder in i-Tree Eco Australia development

**Louis Iverson, USDA Forest Service** (2000–2018)—projected species range maps

**Laura Jackson, U.S. Environmental Protection Agency** (2010–current)—integration of i-Tree and EnviroAtlas

**Rahul Kumhar, Syracuse University** (2010)—i-Tree code development

**Anne Neale, U.S. Environmental Protection Agency** (2010–current)—integration of i-Tree results in EnviroAtlas

**Chris Spencer, ENSPEC** (2010–2012)—collaborator in i-Tree Eco Australia development

**Yang Yang, SUNY-ESF, Davey Institute** (2010–2016)—i-Tree Hydro development and original development of i-Tree Cool and Green Envelope code

**Allison Bodine, USDA Forest Service, Davey Institute** (2011–2017)—i-Tree Eco development and project support

**Yu Chen, Syracuse University** (2011–2012)—i-Tree code development

**Ryan Ash, SUNY-ESF** (2012–2013)—i-Tree database information

**Shannon Conley, Syracuse University** (2012–2013; 2017–2019)—hydrology model development

**Mary Grunstra, University of Toronto** (2012)—GIS data to facilitate use in Canada; funded in part by Tree Canada.

**Jason Henning, Davey Institute** (2012–current)—i-Tree technical support

**Susannah Lerman, USDA Forest Service** (2012–2014)—development of wildlife habitat data in i-Tree Eco

**Keith Nislow, USDA Forest Service** (2012–current)—collaboration in i-Tree Eco and Wood Marketplace development

**Hang Ryeol Na, SUNY-ESF** (2012–2014)—development of UV radiation reduction science used in i-Tree Eco

**Ethan Bodnaruk, SUNY-ESF** (2013–2017)—development of optimization processes

**María del Pilar Arroyave Maya, Escuela de Ingeniería de Antioquia** (2013–current)—development of i-Tree Eco in Colombia

**Cecil Konijnendijk, Swedish University of Agricultural Sciences, The University of British Columbia** (2013–current)—collaborator in i-Tree Eco Europe development

**Johan Östberg, Swedish University of Agricultural Sciences** (2013–current)—collaborator in i-Tree Eco Europe development

**Bhavit Patel, Syracuse University** (2013–2014)—i-Tree code development

**Harsh Sinha, Syracuse University** (2013–2014)—i-Tree code development

**Emily Stephan, SUNY-ESF** (2013–2017)—development of i-Tree Hydro hotspot analyses

**Tom Taggart, SUNY-ESF** (2013–2017)—development of i-Tree Hydro

**Kevin Whalen, Davey Institute** (2013–current)—development of numerous i-Tree tools

**Zhicheng Zhao, Syracuse University** (2013–2014)—i-Tree Hydro development

**Tim Aevermann, Ludwig-Maximilians-Universität München** (2014–2017)—collaborator on i-Tree Eco Europe development

**Haley Canham** (2014)—i-Tree databases

**Kieron Doick, Forest Research** (2014–current)—collaborator in i-Tree Eco UK

**Jordan Gray-Dekraai, SUNY-ESF** (2014–2015)—i-Tree species data development

**Pallavi Iyengar, Syracuse University** (2014–2015)—i-Tree Hydro development

**Mark Hatfield, USDA Forest Service** (2014–current)—integration of i-Tree within USDA Forest Service Forest Inventory and Analysis systems

**Mark Majewsky, USDA Forest Service** (2014–current)—i-Tree integration into USDA Forest Service Forest Inventory and Analysis (FIA) systems

**Lauren Marshall, USDA Forest Service** (2014–current)—i-Tree Executive Team

**Kenton Rogers, Treeconomics** (2014–current)—collaborator in i-Tree Eco UK development

**Keith Sacre, Barcham Trees** (2014–current)—collaborator in i-Tree Eco UK development

**Jim Smith, USDA Forest Service** (2014)—compilation of county FIA carbon data used in i-Tree Landscape

**Tim Stagnata, SUNY-ESF** (2014–2015)—i-Tree database information and processing

**James Steenberg, University of Toronto** (2014–2015)—collaborator on i-Tree testing and use

**Jerry Bauer, USDA Forest Service** (2015–current)—Spanish translations

**Robbie Coville, Davey Institute** (2015–current)—i-Tree Hydro development and support

**Krista Heinlen, Davey Institute** (2015–current)—i-Tree technical support

**Camille McCarthy, USDA Forest Service** (2015–current)—development of i-Tree Eco in Colombia, Spanish translations

**Christopher Maldonado, SUNY-ESF** (2015–2016)—i-Tree data processing

**Emmanuel (Manny) Ong, Davey Institute** (2015–current)—i-Tree testing

**Keely Roy, International Society of Arboriculture** (2015–2019)—i-Tree Executive Team

**Jeevitha Royapathi, Syracuse University** (2015–2017)—i-Tree Hydro development

**Isira Samarasekera, Syracuse University** (2015–2016)—i-Tree Database and i-Tree Hydro development

**Vidmantas Steponavicius, Davey Institute** (2015–current)—i-Tree development

**Resa Abdi, SUNY-ESF** (2016–2019)—i-Tree Cool River development

**Bill Christie, USDA Forest Service** (2016–2018)—projected species range maps

**Jason Cole, USDA Forest Service** (2016–current)—i-Tree Landscape development

**Maggie DeMarco, SUNY-ESF** (2016–current)—energy program improvements

**Bill Hargrove, USDA Forest Service** (2016–2018)—projected species range maps

**Asante Holder, SUNY-ESF** (2016–2017)—processing of i-Tree Landscape surface temperature data

**Vamsi Krishna Kodali, Syracuse University** (2016–2017)—i-Tree Hydro and i-Tree Cool Air development

**Brian Lim, RTI International** (2016–current)—collaborator on i-Tree temperature health metrics

**Jian Lin, SUNY-ESF** (2016–2020)—i-Tree uncertainty analyses

**Sheng-Shan Lu, Taiwan Forestry Research Institute** (2016–2018)—Chinese translations

**Charity Nyelele, SUNY-ESF** (2016–2020)—decision support/optimization

**Sneha Patil, Syracuse University** (2016–2017)—i-Tree Hydro development and documentation

**Jennifer Rickhus, RTI International** (2016–current)—collaborator on i-Tree temperature health metrics

**Serhun Saglam, University of Istanbul** (2016–2018) —collaborator in i-Tree Eco Europe development

**Paramita Sinha, RTI International** (2016–current)—collaborator on i-Tree temperature health metrics

**Kevin Swaney, The Davey Institute** (2016–2018)—i-Tree Landscape upgrades

**Erika Teach, The Davey Institute** (2016–current)—i-Tree technical support

**Sunit Vijayvargiya, Syracuse University** (2016–2017)—i-Tree Database, Hydro and MyTree development

**Trever Wendel, Davey Institute** (2016–current)—i-Tree Landscape development

**Patrick Ahrens, Davey Institute** (2017–current)—i-Tree Landscape and Planting development

**Akshay, Syracuse University** (2017)—i-Tree Hydro development

- Charles Bargeron, University of Georgia** (2017–current)—health metrics integration within MyTree
- Tom Brown, USDA Forest Service** (2017)—national water risk data
- Kurt Flathers, USDA Forest Service** (2017–2019)—collaborator on wildlife data
- Saisumanth Gopisetty, Syracuse University** (2017–2018)—i-Tree Database development
- Richard Hallett, USDA Forest Service** (2017–current)—health metrics integration within MyTree
- Linda Heath, USDA Forest Service** (2017–current)—i-Tree Executive Team
- Rachel Holmes, Nature Conservancy** (2017–current)—health metrics integration within MyTree
- James Kruegler, SUNY-ESF** (2017–current)—i-Tree Species database and Hydro development
- Arpit Shah, Syracuse University** (2017–2018)—i-Tree Hydro, Cool Air, and i-Tree Eco Europe database development
- Naomi Zurcher, arbor aegis, European Forum on Urban Forestry organizing committee** (2017–current)—collaborator on i-Tree Species database, invasive species, threatened and endangered species, and i-Tree Eco Europe development
- Sally Guillorn, SUNY-ESF** (2018)—i-Tree Hydro reporting
- Jeremy Hatfield, SUNY-ESF** (2018–2019)—i-Tree Hydro assessments and database development
- Lucie Lepine, USDA Forest Service** (2018–current)—i-Tree integration into USDA Forest Service Forest Inventory and Analysis (FIA) systems
- Vishal Partekh, Syracuse University** (2018–2019)—MyTree and i-Tree Database upgrades
- Caitlyn Pollihan, International Society of Arboriculture** (2018–current)—i-Tree Executive Team
- Rama Teja Repaka, Syracuse University** (2018–2019)—i-Tree Design upgrades
- Annabel Buckland, Treeconomics** (2018)—i-Tree Canopy and Design for Europe
- Rocco Pace, Karlsruhe Institute of Technology Graduate School for Climate and Environment** (2018–current)—i-Tree transpiration values
- Antonio Ong, Davey Institute** (2018–current)—i-Tree Landscape, Design, and Planting upgrades
- Chan Ryul Park, Urban Forests Research Center, National Institute of Forest Science (NIFoS)** (2018–current)—i-Tree development in South Korea
- Doohan Kwak, Urban Forests Research Center, National Institute of Forest Science (NIFoS)** (2018–current)—i-Tree development in South Korea
- Minji Kim, Korean Forest Service** (2019–2020)—Korean translations and i-Tree analyses in South Korea
- Luca Rossi, University of Study of Perugia, Italy** (2019–2020)—Italian translations