

**Lindsey Jane du Toit**  
**Professor and Extension Plant Pathologist, Washington State University**  
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**EDUCATION**

Ph.D., 1998 University of Illinois at Urbana-Champaign (UIUC), Plant Pathology major  
M.S., 1995 University of Illinois at Urbana-Champaign, Plant Pathology major  
B.S., 1992 University of Natal – Pietermaritzburg (UNP), South Africa, Plant Pathology

**RESEARCH & PROFESSIONAL EXPERIENCE**

Since 2018 Alfred Christianson Distinguished Professor in Vegetable Seed Science  
2013-2018 Professor & Extension Specialist, Washington State University (WSU) Dept. of Plant Pathology (60:30:10 research: extension: teaching). Research & extension on diseases of vegetable seed crops in the Pacific Northwest USA.  
2012-present Special Graduate Faculty, Dept. of Plant Agriculture, Univ. of Guelph, Ontario, Canada  
2006-2013 Associate Professor & Extension Specialist E3, WSU Dept. of Plant Pathology  
2000-2006 Assistant Professor & Extension Specialist E2, WSU Dept. of Plant Pathology  
1998-2000 Plant Diagnostician, WSU Puyallup Plant & Insect Diagnostic Laboratory  
1993-1997 Assistant Plant Diagnostician, UIUC Plant Clinic  
1995-1998 Research Assistant for Prof. J. K. Pataky, UIUC sweet corn pathologist  
1992-1994 Research Assistant for Prof. H. W. Kirby, UIUC field crops pathologist  
1991-1992 Assist. Researcher, Farmers' Support Group, University of Natal, South Africa

**SELECT HONORS & AWARDS**

2022: Fellow of the American Phytopathological Society (APS)  
2019: Pacific Northwest Vegetable Association “Friend of the Industry” Award  
2018: WSU Alfred Christianson Distinguished Professorship and Endowment  
2013: APS Syngenta Award  
2012: WSU College of Agricultural, Human, & Natural Resource Sciences Interdisciplinary Team Excellence Award for co-leading the Pacific Northwest Vegetable Extension Group  
2009: WSU Kenneth J. Morrison Extension Award  
2006: APS Pacific Division Early Career Award  
2002-05, 2006-10, 2012-16: Alfred Christianson Endowed Professorship

**SELECT MEMBERSHIP & INVOLVEMENT IN PROFESSIONAL SOCIETIES**

American Phytopathological Society (member since 1991):  
Fellow (2022), President (2019-20, Presidential Team, 2017-21), Councilor-at-Large (2014-17), Nominations Committee Chair (2022-25), Seed Pathology Committee (Chair 2007-09, Vice-Chair 2021-23, Chair 2023-35), Diagnostics Committee (Chair 2002-03), Plantopia Podcast Steering Committee (since 2022)  
Editorial boards: Senior Editor, *Plant Disease* (2010-12, 2013-15); Associate Editor, *Phytopathology* (2009-11), *Plant Disease* (2000-02); Section Editor, *Plant Disease Management Reports* (2006-09), *Fungicide & Nematicide Tests* (2005-06)  
Crop Science Society of America: Associate Editor, *Agronomy Journal* (2008-11)  
International Society of Plant Pathology (member since 1994):

Seed Pathology Committee (member since 2019; vice-chair, 2021-22)  
Southern African Society for Plant Pathology (since 1991)  
W-2008, W-3008, and W-4008 Multi-state Onion Project (since 2008; Chair 2017)

### **GRANTS & GIFTS RECEIVED since 2000**

\$11,176,997 (\$10,657,905 of federal, state, commodity, & association grants & fellowships + \$519,092 in gifts)

### **TEACHING & MENTORING**

#### **Students, Interns, & Postdoctoral Research Associates advised**

Postdoctoral research associates (6), Project Manager (1), PhD committee chair or co-chair (8), PhD committee member (8), MS committee chair or co-chair (9), MS in Agriculture online student committee chair (5), MS committee member (12), Interns (17), High school Job Shadows (3), High school mentees (1)

#### **Teaching**

WSU Field Plant Pathology graduate course (PI P 525, 3 credits): 2022, 2018, 2016, 2014, 2012, and 2010 (2010 co-taught with G. Grove)

WSU Dept. of Plant Pathology seminar series (PI P 515): Spring 2022

Guest lectures:

WSU: AFS 101, AFS 445/545, CROPS 102, PI P 511, SOILS 541, PI P 525, PI P 551

Univ. of California–Davis: Seed pathology lectures for ‘Seed Biology, Production, and Quality Course’ (2013, 2015, 2019, 2021, 2022, 2023)

Iowa State Univ.: Seed Pathology course (2009)

Univ. of Stellenbosch, South Africa: Guest lectures (2011, 2020, 2021)

### **PUBLICATIONS**

Refereed journal articles (91); refereed technical articles (81); book chapters (10); abstracts (159); extension bulletins, circulars, newsletters (57); proceedings (49); non-refereed professional articles (65); popular periodicals (>37); web pages developed/maintained (2)

### **PRESENTATIONS**

Invited (287); other vegetable/seed pathology presentations (163); plant diagnosis talks (5); pesticide education & recertification talks (6); introductory plant pathology, diagnosis, & management talks (21), WSU Master Gardener training (>32), podcasts (1), radio interviews and other presentations (13)

### **WORKSHOPS, FIELD DAYS, TOURS, CONFERENCES ORGANIZED since 2000**

Chair (4) or member of organizing committee (4) for 8 national or international conferences  
Organized or contributed to 194 regional, national, & international workshops (hands-on lab, greenhouse, or field workshops) as well as extension field days and agricultural tours

### **SELECT REFEREED JOURNAL PUBLICATIONS since 2019**

Batson, A.M, Woodhall, J., and du Toit, L.J. 2023. Real-time PCR assays for races of the spinach *Fusarium* wilt pathogen, *Fusarium oxysporum* f. sp. *spinaciae*. Plant Dis. 107:in press.  
Belo, T., LaHue, G., and du Toit, L.J. 2023. Reducing the risk of onion bacterial diseases through irrigation, fertility, and other cultural management strategies. Agron. J. 115:459-473.

- Batson, A.M., Gyawali, S., and du Toit, L.J. 2022. Shedding light on races of the spinach Fusarium wilt pathogen, *Fusarium oxysporum* f. sp. *spinaciae*. *Phytopathology* 112:2138-2150.
- Batson, A., Spawton, K., Katz, R., and du Toit, L.J. 2022. Cladosporium leaf spot, caused by *Cladosporium variabile*, in winter high tunnel production of spinach (*Spinacia oleracea*) in Maine, United States. *Plant Dis.* 106:2260.
- Shi, A., Bhattarai, G., Xiong, H., Avila, C.A., Feng, C., Liu, B., Joshi, V., Stein, L., Mou, B., du Toit, L.J., and Correll, J.C. 2022. Genome-wide association study and genomic prediction of white rust resistance in USDA GRIN spinach germplasm. *Hortic. Res.* 9: uhac069.
- Batson, A.M., Fokkens, L., Rep, M., and du Toit, L.J. 2021. Putative effector genes distinguish two pathogenicity groups of *Fusarium oxysporum* f. sp. *spinaciae*. *MPMI* 34:141-156.
- Block, A.K., Tang, H.V., Hopkins, D., Mendoza, J., Solemslie, R.K., du Toit, L.J., and Christensen, S.A. 2021. A maize leucine-rich repeat receptor-like protein kinase mediates responses to fungal attack. *Planta* 254:73.
- Gyawali, S., Bhattarai, G., Shi, A., Kik, C., and du Toit, L.J. 2021. Genetic diversity, structure, and selective sweeps in *Spinacia turkestanica* associated with the domestication of cultivated spinach. *Front. Genet.* 12:740437.
- Gyawali, S., Derie, M.L., Gatch, E.W., Sharma-Poudyal, D., and du Toit, L.J. 2021. Lessons from 10 years of stakeholder adoption of a soil bioassay for spinach Fusarium wilt. *Plant Pathol.* 70:778-792.
- Hulse-Kemp, A.M., Bostan, H., Chen, S., Ashrafi, H., Stoffel, K., Sanseverino, W., Li, L., Cheng, S., Schatz, M.C., Garvin, T., du Toit, L.J., Tseng, E., Chin, J., Iorizzo, M., and van Deynze, A. 2021. An anchored chromosome-scale genome assembly of spinach (*Spinacia oleracea*) improves annotation and reveals extensive gene rearrangements in euasterids. *Plant Genome* 14:e20101.
- Liu, B., Stein, L., Cochran, K., du Toit, L.J., and Correll, J.C. 2021. Three new fungal leaf spot diseases of spinach and the evaluation of fungicide efficacy for disease management. *Plant Dis.* 105:316-323.
- McDonald, M.R., Collins, B., du Toit, L.J., and Adusei-Fosu, K. 2021. Soil amendments for the management of Fusarium wilt of bunching spinach in Ontario, Canada. *Crop Prot.* 145:105646.
- Carmody, S.M., King, K.M., Ocamb, C.M., Fraaije, B.A., West, J.S., and du Toit, L.J. 2020. A phylogenetically distinct lineage of *Pyrenopeziza brassicae* associated with chlorotic leaf spot of Brassicaceae in North America. *Plant Pathol.* 69:518-537.
- Liu, B., Stein, L., Cochran, K., du Toit, L.J., Feng, C., Dhillon, B., and Correll, J.C. 2020. Characterization of spinach leaf spot pathogens from several spinach production areas in the U.S. *Plant Dis.* 104:1994-2004.
- Spawton, K.A., McGrath, M., and du Toit, L.J. 2020. First report of *Stemphylium* leaf spot of spinach in New York caused by *Stemphylium beticola*. *Plant Dis.* 104:3068.
- Knerr, A.J., Wheeler, D., Schlatter, D., Sharma-Poudyal, D., du Toit, L.J., and Paulitz, T.C. 2019. Arbuscular mycorrhizal fungal communities in organic and conventional onion crops in the Columbia Basin of the Pacific Northwest USA. *Phytobiomes* 2:194-207.
- Koenick, L.B., Knight, N.L., Vaghefi, N., du Toit, L.J., and Pethybridge, S.J. 2019. Genetic diversity and differentiation in *Phoma betae* populations on table beet in New York and Washington States. *Plant Dis.* 103:1487-1497.
- Zou, Z., Zhang, X., Parks, P., Van de Wouw, A. P., du Toit, L.J., and Dilantha Fernando, W.G. 2019. A new subclade of *Leptosphaeria biglobosa* identified from *Brassica rapa*. *Internat. J. Molec. Sci.* 20:1668.