

PLEASE FIND THE CV FORMAT BELOW

**Curriculum vitae**

1. **Family name: Mawela**
2. **First names:** Khethani Vincent
3. **Nationality: South African**
4. **Country of Residence: South Africa**
5. **Contact details:** +2783 287 0708
6. **Education:**

|  |  |
| --- | --- |
| **Institution****[ Date from - Date to ]** | **Qualification obtained:** |
| University of Pretoria [2006-2010) | MSc Entomology |
| University of Pretoria [2004-2005) | M Inst Agrar (Sustainable Insect Management |
| University of Pretoria [2002-2003] | BInst Agrar Honours |
| University of Venda [1998-2001] | Bachelors of Agriculture  |
| Dimani Agricultural High School [1993-1997] | Grade 12/ National Certificate |

1. **Language skills:** (1 - excellent; 5 - basic)

|  |  |  |  |
| --- | --- | --- | --- |
| **Language** | **Reading** | **Speaking** | **Writing** |
| English | 1 | 1 | 1 |
| Tshivenda | 1 | 1 | 1 |
| Northern Sotho | 3 | 2 | 3 |
| Setswana | 4 | 3 | 4 |
| Tsonga | 5 | 4 | 5 |

1. **Membership** **of professional bodies:**

|  |
| --- |
|  |

1. **Specialisation**: Entomologist
2. **Present position: Researcher Entomologist**
3. **Key Skills: Computer literate: MS Access, Outlook, Excel, PowerPoint, Publisher & Word.**

**Statistica Stat Soft,**

**Arc GIS Soft.**

**Climex modelling**

1. **Specific experience:**

|  |  |
| --- | --- |
| **Country** | **Date from - Date to** |
| South Africa | 2004-present |

1. **Professional experience (Formal employment and Assignments/consultancies**)

| **Date from - to** | **Location** | **Organisation** | **Position** | **Description of Duties and achievements** |
| --- | --- | --- | --- | --- |
| 2004 - 2008 | South Africa, Pretoria | Agricultural Research Council (ARC) | Student Researcher | Biological control of insect pests:Field surveys for insect pests and their parasitoidsCulturing of insect pests and their parasitoids in laboratory,Designing and conducting experiments, Report writing and presentation of findings in national and international congresses.Was involved in a project aim at developing native biological control agents of *Helicoverpa armigera*. |
| 2008 - Present | South Africa, Pretoria | Agricultural Research Council (ARC) | Researcher Entomologist | **Project Manager**: Biological control of Mexican sunflowers; *Tithonia* species in South Africa**Duties**Developing project proposal, budgeting, personnel allocation and management of project.Field surveys and collection of candidate biological control agents of weeds in their native range.Importation of candidate biological control agents.Liaise with regulatory authorities for application of import and export permits, phytosanitary certificates and permission to release suitable biological control agents.Culturing and maintenance insects under quarantine laboratory.Conducting research including risk assessment of candidate biological control agents, semi field and field experiments to assess efficiency of biocontrol agents.Manage mass rearing of biological control agents of *Tithonia* spp and *Lantana camara.*Release of suitable biocontrol agents, monitoring their establishment, spread and impact on target weed species.Mapping the distribution of invasive weeds and their biological control agents.Report writingSupervising technicians and mentoring students.Publishing of research findings in national and international scientific journalsPresentation of findings in national and international congresses and WorkshopsDevelopment of public awareness material including flyers and posters **Other projects involved in:** Biological control of *Lantana camara,* Balloon vine *Cardiospermum grandiflorum* and poisonous ink berries *Cestrum* species |

1. Publications

Peer reviewed

David O. Simelane & **Khethani V. Mawela**. 2019. Establishment and increased fitness of the seed-feeding weevil *Cissoanthonomus tuberculipennis*, a biological control agent for balloon vine *Cardiospermum grandiflorum* in South Africa. *Biological Control.* **135**: 83-88.

David O. Simelane**, Khethani V. Mawela,** Fernando Mc Kay, Marina Oleiro. 2014. [Field and laboratory studies to determine the suitability of *Cissoanthonomus tuberculipennis* (Coleoptera: Curculionidae) for release against *Cardiospermum grandiflorum* (Sapindaceae) in South Africa. *Biocontrol Science and Technology* ***Vol 24*:** 734-750.](https://www.researchgate.net/publication/262015018_Field_and_laboratory_studies_to_determine_the_suitability_of_Cissoanthonomus_tuberculipennis_%28Coleoptera_Curculionidae%29_for_release_against_Cardiospermum_grandiflorum_%28Sapindaceae%29_in_South_Africa?ev=prf_pub)

**K. V. Mawela**, R. Kfir & K. Krüger. 2013. Effect of temperature and host species on parasitism, development time and sex ratio of the egg parasitoid *Trichogrammatoidea lutea* Girault (Hymenoptera: Trichogrammatidae). *Biological Control.* **64**: 211-216.

D. O. Simelane, A. Fourie & **K. V. Mawela**. 2011. Prospective agents for the biological control of *Cardiospermum grandiflorum* Swartz (Sapindaceae) in South Africa. *African Entomology.* Vol **19**. no2: 269-277.

D. O. Simelane**, K. V. Mawela** & A. Fourie. 2011. Prospective agents for the biological control of *Tithonia rotundifolia* (Mill.) S.F. Blake and *Tithonia diversifolia* (Hemsl.) A. Gray (Asteraceae), in South Africa. *African Entomology.* Vol **19**. no2: 443-450.

**K. V. Mawela**, R. Kfir & K. Krüger. 2010. Host suitability of UV-irradiated eggs of three Lepidoptera species for rearing *Trichogrammatoidea lutea* Girault (Hymenoptera: Trichogrammatidae). *Journal of Applied Entomology.***134**: 737-744.

None peer reviewed

**Khethani V. Mawela** & David O. Simelane. 2019. Biocontrol agent against Mexican sunflower released in South Africa. *OilSeeds Focus.* Vol 5 No. 1 March 2019, p 6-7.

**Khethani V. Mawela** & David O. Simelane. 2018. First biocontrol agent for weedy Mexican sunflower released in South Africa. *Plant Protection News*. No.112,

**Khethani V. Mawela** & David O. Simelane. 2018. Prospects for the establishment of two Mexican beetle species (*Zygogramma signatipennis* and *Zygogramma piceicollis*) deployed for the biocontrol of orange -red sunflower (*Tithonia rotundifolia*) in South Africa. *Plant Protection News.* No. 111, p 8-9.

David O. Simelane & **Khethani V. Mawela**. 2018. Emerging success of a seed-attacking weevil *Cissoanthonomus tuberculipennis* in controlling balloon vine *Cardiospermum grandiflorum* in South Africa. *Plant Protection News.* No. 111, p 11-12.

Mphephu T.E., Simelane D.O & **Mawela K.V.** 2013. Prospects brighten for the biological control of the weedy Mexican sunflower, *Tithonia diversifolia,* in South Africa. *Plant Protection News*, **98**, 11-11.

Simelane, D. O.& **Mawela, K.V.** 2013.Biological control of balloon vine *Cardiospermum grandiflorum* in South Africa: targeting the seed output with the weevil *Cissoanthonomus tuberculipennis*. *Plant Protection News.* No. 97, p 9.

Simelane, D. O. **& Mawela, K.V.** 2012.International Collaboration is a Boon to Biocontrol Research of Balloon vine in South Africa. *Plant Protection News*. No. 93, p 15.

**K. V. Mawela** & David O. Simelane. 2012. A tale of two Mexican leaf beetles: candidate biocontrol agents for *Tithonia rotundifolia* in South Africa. *Plant protection News. Vol. 92. Pp: 13-14.*

**K. V. Mawela** & David O. Simelane. Hopes Brighten for Biocontrol of Weedy Sunflowers in South Africa. *Biocontrol News and Information. June 2009.* Vol. 30. no2. pp: 23-24

**K. V. Mawela** & David O. Simelane. Optimism prevails in South Africa for biological control of two emerging weeds, red and Mexican sunflowers. *Plant protection News. Vol. 75. October – December 2008.* pp: 13-15.

International /National Conferences/Workshops

Simelane, D.O. **and Mawela, K.V. (**2019). Biological Control Initiatives Against poisonous South American ink berries (*Cestrum* species)in South Africa. *In* 27th Asian Pacific Weed Science Society Conference; 3-6 September 2019, Kuching, Sarawak, Malaysia.

**Mawela K.V.** & Simelane D.O. 2019. Progress on biological control of invasive *Tithonia* species in South Africa. Workshop on Weed biological control in South Africa and Eswatini from 12 – 16 August 2019. CEDARA College of Agriculture.

**Mawela K.V.** & Simelane D.O. 2019. Management of invasive *Tithonia* species in Mpumalanga province. Mpumalanga Municipality and Stakeholders Workshop on Biological Invasions held on the 15 - 16 July 2019. SANBI Nelspruit.

**Khethani V. Mawela** &David O. Simelane. 2018. Release and initial establishment of two leaf feeding beetles, *Zygogramma signatipennis* and *Z. piceicollis,* against *Tithonia rotundifolia* in South Africa. 45th Annual research Symposium on the Management of Biological Invasions, 3-6 July 2018, University of Venda, Thohoyandou, Limpopo

David O. Simelane & **Khethani V. Mawela**. 2017. An emerging success story of a seed-attacking weevil *Cissoanthonomus tuberculipennis* Hustache (Coleoptera: Curculionidae) released against balloon vine *Cardiospermum grandiflorum* Sw. (Sapindaceae) in South Africa. The 26th Asian-Pacific Weed Science Society Conference (Weed Science for People, Agriculture and Nature). Kyoto, Japan, 19-22 September 2017. p.115.

Simelane, D.O., **Mawela, K.V.** &Ferrucci, M.S. **2014.**Release and initial establishment of the seed-feeding weevil *Cissoanthonomus tuberculipennis, a* biocontrol agent for balloon vine *Cardiospermum grandiflorum* in South Africa*.* 14th International Symposium on Biological Control of Weeds: 2-7 March 2014, Krugar National Park, South Africa.

**Mawela, Khethani V.** & Simelane, David O.2014. Natural enemies of Mexican sunflower *Tithonia diversifolia* (Asteraceae) in Mexico and their potential as biological control agents in South Africa. 14th International Symposium on Biological Control of Weeds: 2-7 March 2014. Kruger National Park, South Africa.

**Khethani V. Mawela** &David O. Simelane. 2011. Host range of two chrysomelid beetles, *Zygogramma signatipennis* and *Z. piceicollis,* biological control candidates for *Tithonia rotundifolia*. 13th International Symposium on Biological Control of Weeds. Waikoloa Beach Marriot, Hawaii, September 2011.

David O. Simelane & **Khethani V. Mawela**. Potential of the seed-feeding weevil *Cissoanthonomus tuberculipennis* for biocontrol of balloon vine *Cardiospermum grandiflorum* in South Africa. 13th International Symposium on Biological Control of Weeds. Waikoloa Beach Marriot, Hawaii, September 2011.

**K. V. Mawela**, K. Krüger & R. Kfir. Biology of the egg parasitoid *Trichogrammatoidea lutea* (Hymenoptera: Trichogrammatidae) on three lepidopteran hosts species. 23rd International Congress of Entomology. Durban, South Africa, July 2008.

**K. V. Mawela**, K. Krüger & R. Kfir. Biology of *Trichogrammatoidea lutea* (Hymenoptera: Trichogrammatidae), a potential biological control agent for *Helicoverpa armigera* (Lepidoptera: Noctuidae)*.* 23rd International Congress of Entomology. Durban, South Africa, July 2008.

**Mawela, K.V**., Douglas, N., van der Merwe, J. & Krüger, K. Temperature-dependent development of the longtailed mealybug *Pseudococcus longispinus* Targioni-Tozzetti (Hemiptera: Pseudococcidae) on grapevine. 15th Congress of the Entomological Society of Southern Africa. Grahamstown, South Africa, July 2005. p. 73.

1. **Professional Referees**

**Dr David O. Simelane** (ARC-PPRI, Pretoria)

Tell no.: +2712 808 800

Cell no.: +2773 029 9991

**Dr R. N. Magoba** (City of Cape Town Metropolitan Municipality)

Cell no.: +2782 962 6662

**Dr Naweji Katembo** (ARC-PPRI, Pretoria)

Tell no.: +2712 808 800

Cell no.: +2772 415 6809